CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Memorial, San Francisco, Calif., City and San Francisco Co., voted bonds, $4,000,000.

Plant, Birmingham, Ala., Gulf Steel Co., plans, $3,000,000.

Aquarium, Chicago, Ill., South Park Comrs. take bids in July, $3,000,000.

Power line, Indianapolis, Ind., Indianapolis Power & Light Co., plans, $2,500,000.

Hospital and nurses home, Syracuse, N. Y., J. R. Pope, archt., for Syracuse Memorial Hospital, takes bids about July 20, $2,500,000.

Exchange, Dallas, Tex., Southwestern Bell Telephone Co., soon takes bids, $2,500,000.

Elevator, Barrards Inlet, B. C., Alberta Wheat Pool, having plans prepared, $2,000,000.

Church, hotel, New York, N. Y., Owner, c/o archts., having plans prepared, $2,000,000.

Apartment, Chicago, Ill., S. C. Finck preparing plans and soon takes bids, $2,000,000.

Hospital, Bayonne, N. J., Jewish Hospital Assn., receiving competitive sketches in Jul··, $2,000,000.

Roads, Denton, Tex., Denton Co., bond election Aug. 1, $1,881,000.

Dock, New Brunswick, N. J., City Comr., making preliminary plans, $1,000,000.

Sale display and manufacturing, Philadelphia, Pa., Mfgrs. Exchange Realty Co., having plans prepared, $1,000,000.

Aviation Field, Kansas City, Mo., bond election in fall, $1,000,000.

Dam, Cuero, Tex., Texas Central Power & Light Co., takes bids in fall, $1,000,000.

Bids Received

Subway, New York, N .Y., bids received, Sect. 1, Route 45, $4,500,000; Sect. 2, $5,862,000.

Civil Courts, St. Louis Co., Bd. Pub. Serv., from Fruin-Colnon Contg. Co., $3,450,000.

Contracts Awarded

Office and store, Chicago, Ill., D. A. Coffey & A. F. McKeown, Inc., to Paschen Bros., $4,000,000.

Office, Minneapolis, Minn., W. B. Foshay Co., to M. Schumacher, $2,500,000.

Sugar mill, Philippine Islands, Compania Tabaclera, to Fulton Iron Wks., St. Louis, Mo., $2,000,000.

Theatre, office and store, Newark, N. J., Broad Park Realty Co., to Arenberg & Fried Co., New York, $2,000,000.

Bank, office and showroom, New York, N. Y., Dee Realty Corp., to G. Richard Davis & Co., Inc., $2,000,000.

Court house, Chicago, Ill., Dept. Pub. Wks., to Great Lake Constr. Co., $1,777,000.

Office, Albany, N. Y., Standard Building Corp., to G. Richard Davis & Co., Inc., $1,500,000.

News of the Week

Waterworks

Proposed Work

Vt., Castleton—Takes bids about July 20, gravity water supply. $100,000. R. C. Wheeler, 36 State St., Albany, N. Y., engr. Noted Jan. 6.

Mass., Methuen—Plans waterworks improvements. $400,000. Engineer not selected.

N. Y., Albany—Common Council plans new conduit line, and 10 m.g. electric pump, at Westerlo Island, here. $300,000.

N. J., Spring Lake—Boro plans purchasing cross compound steam 2 stage air compressor for water plant, and 6 artesian wells. M. O. Morris, boro clk. $15,000.

Wis., Niagara—Soon takes bids water supply, incl. pipe lines, springs, and reservoir. $50,000. Shields, Jordan & Roe, 6 South Dearborn St., Chicago, Ill., engrs. Noted Jan. 13.

Neb., Union—Making plans 50,000 gal. tank on 50 ft. tower, mains, hydrants, valves, etc. in various streets. $18,500. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs.

Mo., Sweet Springs—Making plans waterworks, incl. impounding reservoir. $60,000. J. W. Shickles & Co., 708 New York Life Bldg., Kansas City, engrs.

Tex., Rock Springs—Making plans reconstructing water works, incl. pumping plant, tank and tower, etc. $28,000 appropriated. Address Mayor.

Tex., San Antonio—Carruth-Parks, Inc., c/o Travis Bldg., making plans distributing system and pumping equipment, for 110 acre sub-division development on North Side. $25,000. Private plans.

Tex., Temple—Plans waterworks improvements, incl. 3 m.g. reservoir, etc. $62,000. G. E. Byars, city mgr.

Tex., Westbrook—Mitchell Co. voted $30,000 bonds, waterworks. Address Mayor.

Que., Batiscan — La Cie d'Agueduc de Batiscan Ltd. plans waterworks. $30,000. R. Morrisette, Cap de la Madeleine, engr.

Bids Desired

N. Y., Long Island City—July 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Nassau Blvd., Mulberry Court, Maspeth, 70th, Courtney Aves., Saunders, 48th, 164th Sts., etc.; also mains in Bayview Ave., Broad St. and Harbor Haven, etc., Queens Boro.

N. Y., Long Island City—July 8, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 26th, 41st, Rose, Thornhill Aves., South Jane, 12th and 41st Sts., etc., here.

N. Y., New York — July 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Baisley, Barnes, Blackrock, Cedar, Colonial Sts., etc., Bronx Boro.

N. J., Kenilworth—July 8, by Union Co. Park Comn., Administration Bldg., Warinanco Park, Acme and Canton Sts., Elizabeth, 50 ft. steel tower, and 30,000 gal. cypress or steel water tank. W. R. Tracy, engr. and secy.; adv. E. N.-R. June 30.

Md., Easton—July 11, by Easton Utilities Comn., excavating and backfilling 4,000 lin.ft. trench and laying therein 8 in. c.i. mains and fittings. E. G. Kastenhuber, Jr., town, engr.; adv. E. N.-R. June 30. Noted June 23.

Md., Trappe—July 11, by Town Comrs., 50,000 gal. capacity steel water tank on 100 ft. tower, and installing complete, pump, engine and air compressor for water works pumping station. Kastenhuber & Anderson, P. O. Drawer R, Easton, engrs.; adv. E. N.-R. June 30.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

W. Va., Charleston—July 18, by Kanawha Co. Court, for Cabin Creek Junction Bridge 1109, 140 ft. span through truss superstructure with concrete substructure. R. N. Moulton, co. clk.

Miss., Gulfport—July 5, by Bd. Supervs. Harrison Co., 638 lin.ft. pile bridge approach and 163½ ft. overall swing span over Back Bay of Biloxi, also re-erecting 230 ft. cable bridge over Wolf River. W. S. Hawkins, Gulfport, consult. engr.

Tenn., Nashville—Aug. 10, by Bd. Pub. Wks., at office S. H. McKay, city clk., 28 m.g. rapid sand filtration plant. J. N. Chester Engineers, 1111 Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. June 30.

O., Bay (br. Cleveland)—July 5, by Village, main in Carlton Dr. To exceed $25,000. Wight-O'Rourke Co., Guarantee Title Bldg., Cleveland, engrs. Noted May 26.

O., Columbus—July 7, by Bd. Comrs. Franklin Co., O. Moore, clk., 24,275 ft. 4- to 8-in. c.i. mains, etc. in Sewer Dist. 109. $76,428. E. G. Bradbury, Court House Annex, sanitary engr.

Mich., Wyandotte — July 6, by E. C. Bryan, city clk., 150,000 lin.ft. 6 and 8 in. c.i. mains, etc., in various streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs. Noted June 23.

Ill., Carthage—July 7, by Comrs. Hunt Drainage Dist., J. W. Westfall, clk. Hancock Co., Sect. 1, constructing pumping station; Sect. 2, dam at head of Rocky Run; and Sect. 3, 16 bridges and field crossings, etc. Noted Mar. 18.

Ill., Chicago—July 5, by City, Room 406, City Hall, equipment for filter basins and special filter apparatus for experimental filtration plant, 69th St. and Oglesby Ave. R. W. Wolfe, comr. Pub. Wks.

Mo., St. Louis — July 12, by Bd. Pub. Serv., 208 City Hall, manufacturing and driving piles for coagulant house foundation, excavation, grading, etc., at Howards Bend Waterworks Sta., on Missouri River. $40,000. L. Day, City Hall, comr.

Mo., St. Louis—July 26, by Bd. Pub. Serv., 208 City Hall, guides, brackets, and fixed screen refuse troughs and c.i. pipe for 3 traveling water screens in intake at Howards Bend Water Works Sta., on Missouri River, St. Louis Co., $6,000; also sub-station in Dist. E, city electric light system, $20,000. L. Day, City Hall, comr.

Ark., Ft. Smith—W. Kiestred, engr., 614 Interstate Bldg., Kansas City, Mo., taking bids preliminary boring on placing low water dam across Poteau River, for City. Noted Apr. 28.

Ore., Gladstone—July 6, by Clackamas Water Dist., C. C. McLaughlin, secy., School House, Clackamas Station, 1,800 ft. 4- to 12-in. c.i., 70,200 ft. 3 in. steel, also 81,800 ft. c.i. or De la Vaud mains, etc., in various streets, 19,800 cu.yd. excav. and backfill and 4,400 cu.yd. excav. for reservoir base. H. K. Gilbert, Couch Bldg., Portland, engr.

Contracts Awarded

Mass., Falmouth — Erecting steel plate standpipe 26 ft. diam. and 90 ft. high, to Pitts Des Moines Steel Co., 50 Church St., New York City; masonry foundation and wall to enclose pipe, to E. Smith, 80 Ashford St., Allston. Engrs. est. to exceed $15,000. Noted Apr. 28.

Mass., Wakefield—Filtration system and dam for Waterworks Dept., to A. P. Rounds, Main St., Stoneham. $104,406. Engrs. est. $175,000. Noted June 16.

See proposal advertising on page 117

TRADE **"LEADITE"** MARK

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A satisfied customer for more than 20 years

This one concern has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints. Working pressures exceeding 200 pounds.

The Pennsylvania Water Company, Wilkinsburg, Pennsylvania, has been a satisfied user of Leadite for over 20 years.

It has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints; sizes have varied from 4" to 42" in diameter.

It has working pressures up to and exceeding 200 pounds per square inch.

The Pennsylvania Water Company makes a systematic water waste survey of its system each year which shows the tightness of the mains laid underground.

The Pennsylvania Water Company usually lays its pipe with its own forces, but the 20" line, shown in the accompanying picture, was laid by a contractor and with most excellent results.

This line was tested and the leakage on this line ranged from 1/3 to 1/10 of the allowable leakage as ordinarily specified.

Mr. W. C. Hawley is Chief Engineer and General Superintendent of the Pennsylvania Water Company.

Section of 33,000 feet of 20 in. c. i. bell and spigot water main laid by contractor for the Pennsylvania Water Company. Pressures ranging from 70 pounds to 225 pounds per sq. in.

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NO CAULKING

Waterworks (Continued)

Conn., Meriden—Pub. Wks., Dept., sand filtration plant at Broad Brook Reservoir, 67 x 149 ft., brick, rein.-con. and steel building, etc., to L. Suzio Constr. Co., State St., $38,000; piping aerators and coagulation chambers, to Norwood Eng. Co., Florence, Mass., $57,435. Noted May 26.

Conn., Wethersfield — For 17,000 lin.ft. c.i. pipe, Wolcott Hill Fire Dist., to A. W. Bryne & Son, 79 Linnmore St., Hartford, $16,000.

N. Y., Amenia—Dept. Mental Hygiene, Albany, installing and testing wells at Wassaic State School, here, to Barker Artesian Co., 141 Allens Ave., Providence, R. I. $11,250. Noted May 12.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 28th Ave., 23rd, and 49th Sts., etc., here, to S. Gallucci & Sons, Inc., 33 Railroad Ave., Corona, $15,872. Noted June 9.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Allerton, Coddington, and Commerce Aves., etc., to Knight & DeMicco, 448 East Tremont Ave., $7,824. Noted June 16.

N. Y., Syracuse — Bureau Water, approximately 7 mi. 6- to 24-in. c.i. mains in various streets, to Pepper Bros., Syracuse, at $7.90 average unit price.

N. J., South Orange—Water Com., Bd. Village Trustees, Village Hall, 2 complete air compressor and water pumping units, motor driven at Pumping Station Building, on Water Lands, to Turbine Equipment Co., 30 Church St., New York City, $23,800. Noted June 2.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, 6- to 12-in. c.i. mains in various streets, Contr. 886, to P. and A. J. Ellis, 4th and Wyoming Sts. $89,602. Noted June 16.

O., Maple Heights (br. Cleveland)—See "Sewers."

Mich., Detroit—Dept. Purchases & Supplies, 710 Marquette Bldg., 3,800 tons c.i. pipe, f.o.b. Detroit, to U. S. Cast Iron Pipe Co., Burlington, N. J., 16 in. De Lavaud at $2.70 per ft. and 12 in. Class 150 De Lavaud at $1.61 per ft.; 1,200 tons 12 in. Class 150 Mono cast pipe, to Amer. Cast Iron Pipe Co., Acipco St., Birmingham, Ala., $1.515; and 1,200 tons 12 in. De Lavaud pipe, to Natl. Cast Iron Pipe Co., Tarrant City Birmingham, Ala., $1.61.

Mich., Detroit—Dept. Water Supply, 3,000 tons 36 in. c.i. water pipe, f.o.b. Detroit, to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., at $40.50 per ton.

Ill., Chicago—City, Room 207, City Hall, water service pip s in portion Emerald, South Lawndale, South Maplewood, South Campbell, South Artesian Aves., West 79th, 80th and 81st Pls., West 115th, West 80th, 81st and 82nd Sts., to G. D. Hardin, 3139 Indiana Ave.; in portions East 83rd and West 72nd Sts., South Irving, South Claremont, South Oakley, Phillips, Essex, Colfax, Saginaw and Marquette Aves., to Walsh & Metzger, Inc., 6828 South Chicago Ave.; in portions East 96th, South State, Wallace, South Richmond and South Mozart Sts., South Sacramento and South Francisco Aves., to Washington Plumbing & Heating Co., 461 North Halsted St. Noted May 12.

Ill., Chicago—Bd. Local Impvts., City Hall, East substructure for 175 ft. double leaf trunnion bascule bridge, 90 ft. over South Branch Chicago River, to FitzSimmons & Connell D. & D. Co., 10 South La Salle St., $287,290; west substructure, to M. E. White Co., 1735 Fullerton Ave., $144,914; and superstructure, to Ke Her-Elliott Co., 3121 South California Ave., $482,900. Grand total $915,104. Noted May 12.

Kan., Otis—For 32,000 ft. 2- to 6-in. c.i. pipe, to Amer. Cast Iron Pipe Co., 912 Scarrett Bldg., Kansas City, Mo., $20,975; 100 water meters, to Neptune Meter Co., 50 East 42nd St., New York City, $1,228; 2 engines for driving pumps, to Fairbanks Morse Co., 1218 Liberty St., Kansas City, Mo., $1,075; two 50 g.p.m. pumps and fittings, to Terry, Cowan & Smith, 1005 Davidson Bldg., Kansas City, Mo., $2,744; steel tank, 50,000 gal. capacity on 100 ft. tower, to Des Moines Steel Co., 421 Southwest 4th St., Des Moines, Ia., $6,300; and general contract for waterworks, to Ray Knox Constr. Co., Palmer, $10,529. Grand toal $42,851. Noted May 12.

Neb., Rushville—Improving waterworks, incl. 2 dug wells approximately 60 ft. deep, one 16 ft. and other 44 ft. wide, concrete work and connecting to existing well, to F. T. Leeder, 621 5th St., Sioux City, Ia., $11,505. Engrs. est. to exceed $15,000. Noted June 9.

N. D., Devils Lake—Rein.-con. reservoir, settling basin and pump house, to Jenson & Co., Devils Lake, $24,800.

Mo., New Madrid—See "Sewers."

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 2,100 ft. extension to Hurdle Dike 15 on St. Louis Co. side Missouri River at Howards Bend Waterworks, to Kansas City Bridge Co., 210 Orear-Leslie Bldg., for Water Dept. $85,760. Engrs. est. $73,500. Noted May 26.

Tex., Houston—Laying 12 in. main in Franklin Ave. from Main to Chenevert Sts., and 8 in. main in Franklin Ave. from Chenevert to Chartres St., to Southern Constr. Co., Merchants Exch. Bldg., $21,625. Engrs. est. $40,000. City furnishes pipe. Noted May 26.

Tex., Point Isabel—Point Isabel Townsite Co., c/o C. Y. Tyrrell, 9 mi. 8 in. main pipe line from Rio Grande River supplying city with water, to Agar & Gentry, San Benito, $140,000.

Wash., Seattle—Bd. Pub. Wks., watermains, sewers, etc., in various streets, to Interstate Constr. Co., 1713 22nd St. S. $38,195.

Calif., Williams—I. A. Fouch, city clk., c.i. mains, steel tank, tower, etc., to O. Fisher, 1115 Euclid Ave., Santa Monica, $44,000. Noted June 2.

B. C., Rossland — City Council, laying 10 in. wood and 12 in. c.i. pipe, 2 earth dams with puddle clay cores reservoir, inlet and outlet chambers, etc. to Dawson Wade & Co., Bekins Bldg., Vancouver, $61,090. Noted May 26.

Sewers

Proposed Work

N. J., Iselin—Woodbridge Twp. Com. plans sewerage system, here. $260,000. Engineer not selected.

Mich., Detroit—Made plans 17,851 ft. 12- to 24-in. vitr. and brick sewers in Laterals 4852, 4860, 4861, 4835 and 4845; 20,431 ft. 12- to 20-in. in Laterals 4857, 4864 and 4850; 1,901 ft. 12- to 18-in. in Laterals 4862 and 4863; 120 ft. 10 in. in Lateral 4856; 1,025 ft. 12- to 36-in. in Lateral 4858; 1,873 ft. 15- to 18-in. in Lateral 4847; and 376 ft. 12- to 15-ft. in Lateral 4849. P. A. Fellows, city engr.

Ill., Peoria — Voted to form Sanitary Sewer Dist., incl. cities of Peoria, Averyville, Peoria Heights, and portions Richwoods, Peoria and Limestone Twps. $750,000. W. E. Backes, City Hall, engr. Noted Apr. 21.

Mo., St. Louis—Soon takes bids reconstructing, etc., Arsenal St. Sewer and outlet. $54,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids Highland Joint Sewer Dist., 2,280 ft. 12 to 27 in. vitr. clay, or 30 in. brick or segmental tile, 750 ft. 30 vitr. clay or 33 in. brick or segmental tile, 585 ft. 33 in. vitr. clay or 36 in. brick or segmental tile, 435 ft. 36 in. vitr. clay or 39 in. brick or segmental tile, 2,045 ft. 42 to 66 in. brick or segmental tile pipe, etc. $64,000. W. W. Horner, 300 City Hall, engr.

Tex., Amarillo—Takes bids after July 5, sewers and laterals in various streets. $300,000. H. B. Jones, Amarillo, engr.

Tex., Edinburg—See "Buildings—Industrial."

Tex., San Antonio—See "Unclassified."

Calif., Alhambra—Plans permanent storm drain in San Pasqual Wash from Alhambra to Mission Rds. $25,000 or more.

Calif., Glendale—Making plans 6- to 10-in. vitr. sewer, etc., in Campbell St., etc. To exceed $25,000. J. F. Johannsen, city engr.

Calif., Los Angeles—Made plans 79 ft. 12 in. D. & W. S. vitr. and 26,173 ft. 8 and 10 in. vitr. sewers, also 15,500 ft. 6 in. house sewers, etc., in Colorado Blvd. and Townsend Ave. J. C. Shaw, city engr.

Calif., Los Angeles — Bd. Pub. Wks., rescinded contract constructing Jefferson Storm Drain 3. Noted May 5.

Calif., Lynwood — Plans sewer east of Bulls Rd. Acq. & Impvt. Dist. 11. $35,000 or more. C. L. Stoddard, city clk.

Ont., Oshawa—Plans approximately 10,000 sq.ft. vitr. tile and concrete sewers in various streets. $50,000. W. E. Smith, Municipal Offices, engr.

Bids Desired

Conn., Bristol—Taking bids 5,800 ft. 8 in. tile sewer in Park View Dist. C. W. Buell, 175 Main St., engr.

Mass., Boston—July 1, by Dept. Pub. Wks., sewerage works in various streets in Dorchester. $25,000. J. H. Sullivan, comr.

Mass., Boston — July 5, by Dept. Pub. Wks., sewerage works in various streets in West Roxbury. To exceed $25,000. J. H. Sullivan, comr.

Mass., Boston — July 5, by Dept. Pub. Wks., sewerage works in various streets in Hyde Park; July 6, in various streets in Dorchester; and July 11, in various streets in Boston proper. $25,000. J. H. Sullivan, comr.

N. Y., Bolivar—July 28, by Bd. Village Trustees, sewers and disposal works, etc. C. C. Hopkins, 349 Cutler Bldg., Rochester, engr.; adv. E. N.-R. June 30.

N. Y., Port Washington—July 12, by Bd. Sewer Comrs., Port Washington Sewer Dist., approximately 760 ft. 12 in. vitr. sewer in portion Main St. T. H. Barnes, 17 Battery Pl., New York City, consult. engr.; adv. E. N.-R. June 30.

N. J., Newark — July 7, at City constructing Sect. V Supplementary Joint Trunk Sewer in East Orange, Hillside, Irvington, Maplewood, Millburn, Newark, Roselle Park, South Orange, Summit, Union and West Orange. Former bids rejected. A. Potter, 50 Church St., New York City, engr. Noted June 9.

Pa., Phila.—See "Materials."

Va., Huntington—July 5, by Bd. City Comrs., H. L. Yeich, comr. streets, etc., lateral sewers in various alleys, 16th, 19th, 23rd Sts., Jefferson and Madison Aves. A. B. Maupin, city engr.

Ala., Birmingham — July 29, by City Comn., brick, terra cotta and concrete sewers in 10 blocks 4th Ave. W., 15th St., 4th Court W., and 5th Ave. W., to drain Bush Hills section, $15,300; also brick, c.i. and terra cotta sewer in 4 blocks 81st St. S., 5th Ave. S., and 81st Pl., $13,250. A. J. Hawkins, city engr.

O., Akron—July 7, by W. F. Peters, dir. Pub. Serv., 930 ft. 30- to 36-in. segmental block relief storm sewer in South Maple St. $33,100. J. E. Root, Municipal Bldg., engr.

Ind., Anderson — July 11, by Bd. Pub. Wks., 19,000 ft. 8- to 42-in. sewers, etc., in West Side Sewer Dist. $90,000. M. H. Downey, city engr. Noted May 19.

Mich., Detroit — July 6, by Dept. Pub. Wks., 8,904 ft. brick and concrete sewers in Six Mile Rd. Arm West and East of Mill Rd. Sewer; 8,074 ft. in Six Mile Rd. Arm East and West of Hubbell Ave. Sewer; 2,613 ft. Griggs-Curtis Arm, Sect. 1 North of Six Mile Rd. Sewer; 3,706 ft. in Seven Mile Rd. Arm East of Hubbell Ave. Sewer; 1,951 ft. in Kercheval Ave. Relief Sewer; and 3,017 ft. in Curtis Ave. Arm East, Hubbell Ave. Sewer. P. A. Fellows, city engr.

Neb., Beemer—July 7, by J. B. Severa, city clk., City Hall, sewerage system. $26,500. Former bids rejected. Scott & Scott, 427 Bankers Life Bldg., Lincoln, engrs. Noted June 2.

Calif., Los Angeles—July 13, by Comrs. Los Angeles Co. Sanitation Dist. 2, constructing Old River School Rd. Trunk Sewer. Former bids rejected. Noted June 2.

Contracts Awarded

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Barn St., to Welsh Bros. Contg. Co., 14 Queens St., Flushing, $2,268; and 2nd Ave., to Kew Contg. Co., Mineola, $3,620. Noted June 2.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in 37th (Polk) St. and 114th Ave., to J. Gallo, 30th and State Sts., Flushing, $55,913 and $16,504 respectively; in Lee Ave., H. J. Mullen Contg. Co., 139-39 Jamaica Ave., Jamaica, $6,110; and in Decker St., to Muccinni & Decker, 112th Rd. and Springfield Blvd., Queens Village, $598,344. Grand total $676,871. Noted June 9.

N. Y., Syracuse—Intercepting Sewer Bd., City Hall, relief sewer in Elm St., to A. Stowell, Syracuse, $15,460. Noted June 9.

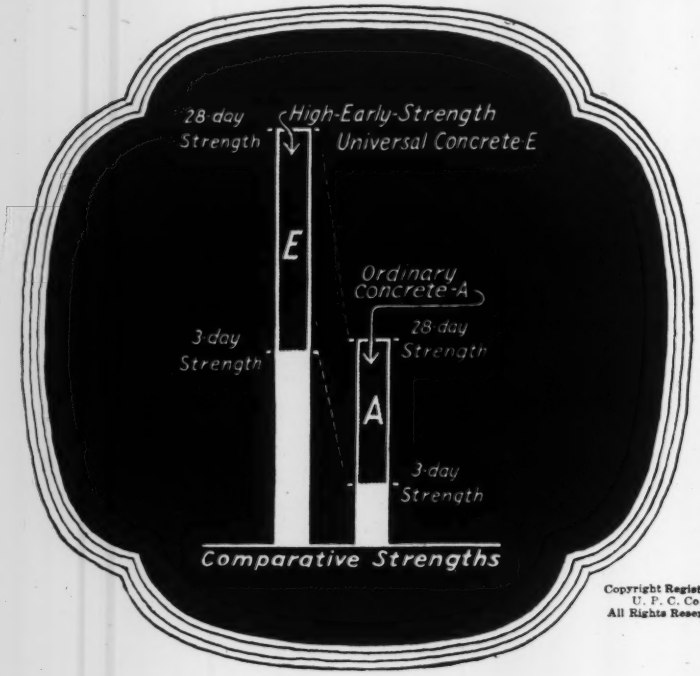
N. J., Plainfield—Common Council, City Hall, storm sewer in various streets, to J. Miele, 41 Main St., East Orange, $24,347. Noted June 9.

N. J., Union — Union Twp., sewers in Elmwood Ave., etc., to Decker & Canning, 395 Grove St., Newark, $107,723; in Tyler St., etc., to J. Cestone, 5 Cloverhill Pl., Montclair, $57,546; and in Conant Ave., etc., to P. Scola, 415 Glen Ridge Ave., Glen Ridge, $43,541. Grand total $208,810.

Md., Baltimore — Bd. Awards, storm drains and sanitary sewers in Sewer Dist. H-7, Storm Water Contr. 107, to K. C. Richardson, Old Town Natl. Bank Bldg., $64,851. Noted June 2.

Va., Richmond—Bd. Pub. Wks., R. K. Compton, dir., sewers in Oakwood St., Graham Rd., Garland, Hanes and North Aves., to H. D. Driscoll, Inc., Mutual Bldg., $90,800; plain concrete pipe, to C. P. Lathrop, Spottswood and Leigh Sts., $16,001; precast rein.-con. pipe, to Lock Joint Pipe Co., $28,713; and castings, to J. W. Carr, 7 North 25th St., $2,500. Grand total $138,114. Noted June 16.

Constr. News page 416



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1. When the owner wishes *early* use of the job (in which case he also gets *permanently* better and stronger concrete);

2. When the owner wishes better-than-ordinary concrete (in which case he also gets *early* use of the job).

In either case he gets both!

High-Early-Strength concrete is made by using fully tested methods and standard—not special—Universal cement. As it can be made as workable as desired, it may be used on all types of jobs. For full details use the accompanying coupon.

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Sewers (Continued)

O., Cincinnati—Hamilton Co., 20,844 ft. 6- to 10-in. vitr. clay sewer in Sanitary Sewer 25, Dist. 2, to W. Henningan, 414 Riddle Rd., $60,707. Engrs. est. $64,563. Noted Apr. 28.

O., Maple Heights (br. Cleveland)—Concrete sewer in Center Rd. Outlet 3, to J. B. Lynn Constr. Co., 16311 Saranec Rd., Cleveland, $51,161. Noted June 9.

O., Maple Heights (br. Cleveland)—To Curro & Whittaker, Engineers Bldg., Cleveland (a) sewer (b) water-mains in Knoll Dr. (a) $2,899 (b) $2,008, Lewis Dr. (a) $3,880 (b) $2,559 Garfield Ave. (a) $6,355; also to Haddad-Mall Co., Schofield Bldg., Cleveland, water-mains in Libby Rd., $12,-147. Grand total $29,848. Noted June 9.

O., Parma (br. Cleveland)—Sewers in Group "C," to Hanna & Michael Constr. Co., 640 Huron Rd., Cleveland, $12,000; Group "D," to Assad Constr. Co., 3129 Scranton Rd., Cleveland, $12,057; and Group "E," to Gantose Constr. Co., Brook Park Rd., Cleveland, $22,227. Grand total $46,284. Noted June 9.

Ill., Chicago—City, Room 207, City Hall, tile sewers, with brick manholes and catch basins in portions West 100th, 101st and 102nd Pls., Ellis and Muskegon Aves., West 56th, West 103rd and South Elizabeth Sts., to Mancini & Ventrella, Chicago; in portions East 87th, East 96th, Argyle and East 22nd Sts., to D. Cuzzone, 922 South Mansfield Ave.; in portions East 87th St. and South Irving Ave., to M. Murphy, 5854 South Michigan Ave., in portions West 79th, 80th and 81st Pls., East 87th, West 89th, 81st and 82nd Sts., South Campbell and South Artesian Aves., to A. Santucci, 916 South Ashland Ave.; in portions West 52nd St., Ordell, Octavio, Oconto and Orange Aves., to N. Ranieri, 5036 Montani Ave.; in portions West 103rd St., to Donato & Benedetto, Chicago; in portions North Kedzie, South Sacramento, Francisco, Narragansett, Normandy and Sayre Aves., West 71st, South Richmond, South Mozart, and West 71st Sts., to L. Scully, 82 West Washington St., in portions Talcot, North Nordica and North Neva Aves., to Casbarr & Palumbo, Chicago; in portions Mango, Race and South Cicero Aves., to G. F. Santry Co.; and in portions Peterson Ave., to F. Peyrot, 4207 Marmora Ave. Noted May 12.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., North Shore Intercepting Sewer, ¼ mi. 6½ in. concrete pipe, Contr. 4, to W. J. Newman, 21 North Curtis St., $75,079. Noted Feb. 10.

Minn., Columbia Heights (Minneapolis P. O.) — W. Leitch, city mgr., approximately 59,035 ft. 8- to 24-in. vitr. clay sewers, 49 catch basins, etc., in various streets, to H. Nodland, Starbuck, $82,362. Noted June 2.

Kan., Salina—For 27 manholes, 7 flush tanks, and 16,941 ft. 6- to 10-in. vitr. clay sewers in various streets, to Eberhard & Shriver, Salina, $23,780. Engrs. est. $25,308.

Mo., New Madrid—R. L. Jones, city clk., 31,315 ft. 8- to 12-in. sewers, 615 wyes, 58 manholes, 13 flush tanks, pumping plant, also 18,350 ft. 4 in. c.i. and 1,000 ft. ¾ in. galvanized mains, etc., in various streets, to Hogle & Marsh, Muskogee, Okla., $48,-000. Noted May 26.

Okla., Maud — Sewage disposal plant, Imhoff tank, and 36,510 ft. 8- to 12-in. vitr. clay sewers in all streets, to Standard Paving Co., 1742 East 6th St., Tulsa, $73,291. Engrs. est. $85,990. Noted May 26.

Tex., Borger (Plemons P. O.)—Complete sewerage system and disposal plant, to Janes Contg. Co., 805 Trunk Ave., Dallas, $74,846. Engrs. est. $80,000.

Tex., Conroe—Sewers in various streets, disposal and pumping plants, to V. H. Williford, 1330 Castle St., Houston, $62,896.

Tex., Cottage Grove—City, c/o W. G. May, 62,000 ft. 6 and 8 in. and 4,000 ft. 10 in. sewers in various streets, also pumping plant, to V. H. Williford, 1330 Castle St., Houston, $120,000. Engrs. est. $120,000.

Wash., Olympia — Swantown Trunk Sewer, 3,250 ft. 30 and 72 in. rein.-con. pipe, etc., to Coluccio & Alia, Box 331, Seattle, $56,153 engrs. est. $63,283; and West Side Trunk Sewer, 3,170 ft. 10- to 15-in. pipe, etc., to H. E. Olds, 3111 North 34th St., Tacoma, $7,848 engrs. est. $11,-761. Noted Feb. 24.

Wash., Seattle—See "Waterworks."

Calif., Beverly Hills — B. J. Firminger, city clk., concrete storm drain, etc. in Benedict Canyon Dr., to J. Tomel, 599 Madison St., Culver City, $28,557.

Calif., Glendale—Sewer in Grand View Ave., etc., Dist. 10, to B. D. Zaich, 220 West 56th St., Los Angeles, $140,145; also vitr. sewer, etc., Harvey and Hill Drs., etc., to Tomich & Zarubica, 220 North Chestnut St., approximately $101,575. Noted May 19.

Calif., Los Angeles—Sanitary sewer in Meadowbrook Ave., to G. W. Kemper, 3701 Overland Ave., $26,399; also storm drain, and resurfacing Cahuenga Blvd. between Cadet Court and Lankershim Blvd., to C. H. Johnston, 1120 Las Palmas St., $76,146. Noted Apr. 14.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 2, portion Joint Outfall Units 2, 3a and 3b, to Ross Constr. Co., Van Nuys Hotel, $425,000. Noted May 2.

Calif., Lynwood—Vitr. sewer in Dist. 7, to Bebek & Brkich, 1905 Yosemite Dr., Los Angeles, $95,405. Noted June 9.

Ont., Toronto — Vitr. tile sewers in Carling Ave., to W. E. Taylor, 22 Falcon St., $873, and Fleet St., to W. R. Worthington Constr. Co., 287 Belsize Dr., $29,200. Work involves 3,500 lin.ft. 8 in. and up pipe, etc. Noted Mar. 24.

Waste Disposal

Bids Desired

Fla., Tallahassee — July 12, by B. H. Bridges, city aud. and clk., constructing garbage incinerator, etc.; adv. E. N.-R. June 30.

Contracts Awarded

O., Toledo — W. B. Guitteau, dir. Pub. Serv., constructing West Side incinerator plant, Creekside and Sylvania Aves., to Decarie Incinerator Corp., 342 Madison Ave., New York City, $122,900. Noted Mar. 3.

Bridges

Proposed Work

N. J., Matawan—Bd. Freeholders Monmouth Co. (Freehold), making plans steel girder bridge over Matawan Creek, at Ravine Dr. Hill, here. $25,000.

W. Va., Huntington—Soon takes bids 3 span 350 ft. steel bridge over Guyandot River at Robey Hollow, here. $60,000. A. B. Maupin, Huntington, engr. Noted Mar. 10.

Fla., Fort Meade—See "Streets and Roads."

Wisconsin—State Hy. Comn., Madison, made plans La Valle Street Bridge, in Reedsburg, A. F. Niebuhr, city clk.; 6 bridges and 2 box culverts in Dodge Co., E. C. Nitchke, comr., Juneau; Little River Bridge, Oconto Co., E. W. McAllister, comr., Oconto; 12 bridges in Kewaunee Co., H. Griese, comr., Kewaunee; 2 bridges in Marathon Co., J. A. Clark, comr., Wausau; Purdy Bridge and 1 box culvert in Monroe Co., G. Goff, comr., Sparta; 1 bridge in each St. Croix Co., H. B. Olson, comr., Hammond, Sheboygan Co., G. W. Ubbehlohde, comr., Sheboygan and Price Co., W. Jackson, comr., Phillips. G. H. Kirch, bridge engr.

Wisconsin—State Hy. Comn., Madison, made plans Wilcox Bridge in Grant Co., H. Mink, comr., Lancaster; 3 bridges, Marathon Co., J. A. Clark, comr., Wausau; 2 bridges Monroe Co., G. Goff, comr., Sparta; 1 bridge in Oconto Co.; and one in Sauk Co., W. Halbersleben, comr., Baraboo. C. H. Kirch, bridge engr.

Kan., Abilene—See "Streets and Roads."

Kan., Ottawa Junction (mail Ottawa)—City of Ottawa and Atchinson, Topeka & Santa Fe Ry., C. F. W. Felt, ch. engr., 80 East Jackson Blvd., Chicago, Ill., plan rein.-con. viaduct to carry street over railroad tracks, here. $100,000.

Kan., Seneca—See "Streets and Roads."

Mo., Kansas City—Jackson Co. plans 100 ft. span rein.-con. viaduct, on 20 ft. roadway, 15th St. and Appleton Ave. (Maywood Dist.), $40,000. L. Koehler, Court House, co. engr.

Tex., Batesville — See "Streets and Roads."

Tex., Borga (mail Hillsboro)—Making preliminary plans sewers in various streets. $30,000. Address Mayor.

Tex., Ft. Worth—City, O. E. Carr, mgr., and Tarrant Co. plan rein.-con. bridge across Lake Worth. $75,000.

Calif., Redding—Shasta Co. plans bridges over Raglin Gulch, Falls Ferry Sough, Roaring, Arbuckle and Lack Creeks. To exceed $25,000. C. F. Mau, Redding, co. surv.

Calif., Woodlake—Tulare Co. (Visalia) making plans 280 ft. rein.-con. bridge over St. Johns River, south of here. L. A. Moye, Visalia, co. surv.

Bids Desired

Pennsylvania—See "Streets and Roads."

Pa., Harrisburg — July 21, by B. E. Taylor, secy. Dept. Property & Supplies, Capitol, sections and portions Soldiers and Sailors Memorial Bridge, Contr. 2. J. E. Greiner Co., Lexington Bldg., Baltimore, Md., engrs.

Pa., Phila.—July 6, by Dept. Pub. Wks., Bureau of Engineering, Bridge Div., reflooring 865 x 100 ft. Girard Ave. Bridge over Schuylkill River. G. H. Biles, dir.

West Virginia—See "Streets and Roads."

W. Va., Huntington—July 14, at office Bd. City Comrs., two 90 ft. and one 170 ft. span concrete and steel bridge with 18 ft. roadway and 5 ft. walk, over Guyan River, on Robey Rd.

W. Va., Middlebourne—See "Streets and Roads."

Ind., Huntington—July 6, by Bd. Comrs. Huntington Co., constructing Bridge 18 known as Murphy Bridge, steel between Sects. 13 and 25, Jefferson Twp. Noted May 5.

Miss., Belzoni—See "Streets and Roads."

Michigan—July 7, by R. A. Beers, resident engr., 309 McNair Bldg., Kalamazoo, S. R. Bridge 110202, Contr. 1 and 2, two 35 ft. and one 50 ft. span steel deck girder, 40 ft. roadway, and S. R. Bridge 110204, Contrs. 1 and 2, Berrien Co., for State Hy. Dept., Lansing.

Michigan—July 13, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, F. A. Bridge 291606, two 65 ft. span steel deck girder, 30 ft. roadway, Contrs. 1 and 2, Gratiot Co., for State Hy. Dept., Lansing.

Wis., Baraboo — July 6, by State Hy. Comn., Court House, Bway. St. Bridge over Baraboo River, here, 261,160 lb. structural steel, etc. C. H. Kirch, bridge engr. Noted Dec. 30.

Wis., Green Bay — July 2, by G. J. Cormier, comr. Brown Co., constructing Arts Bridge, Ashwaubenon, incl. 14,000 lb. reinforcing; Janssen Bridge, Hobart, approximately 12,735 lb. steel; Malevitiski Bridge, Range Line Bridge, 100 ft. plate girder, etc.; Bay Shore Bridge, Scott, Heinrich Bridge, Glenmore, Delcore Bridge, Green Bay, Van Caster, Smith, LanCelle, and Finnerty Bridges; also Kaster and Jadgodzinski Culverts. O. C. Rollman, div. engr.

Ark., Dardanelle—July 29, by State Hy. Comn., Little Rock, steel and concrete bridge over Arkansas River, on Federal Aid Project 244-A, Yell and Pope Counties, here. D. H. Blackwood, chn.; adv. E. N.-R. June 30. Noted June 16.

Tex., Abilene—Taking bids 60 ft. steel and concrete bridge across Catclaw Creek at Cob Park. $30,000. W. A. Riney, Abilene, engr.

Ore., St. Helens—July 8, by G. G. Hall, roadmaster, constructing 100 ft. (main), 38 and 57 ft. (ends) steel span bridge over Nehalem River, Columbia Co. To exceed $25,000. H. H. Hall, St. Helens, engr.

California—July 11, by State Hy. Comn., Sacramento, one 220 ft. truss, one 60 ft. and eleven 32 ft., rein.-con. girder span bridge over Redwood Creek, ¼ mi. north of Orick, San Joaquin Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

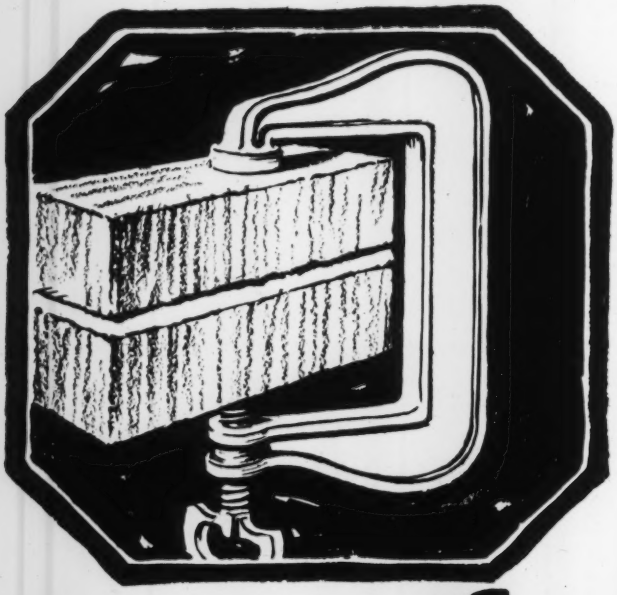
N. Y., Hoosick Falls — Town Bd. of Hoosick, Hoosick Falls, at office Town Clerk, reconstructing Shop Bridge, 4 span 240 ft. through steel plate girder, 18 ft. roadway and two 6 ft. sidewalks, over Hoosick River, here, to Albany Bridge Constr. Co., Inc., 518 Bway., Albany, $31,-542. Noted May 19.

N. Y., New York—A. Goldman, comr. Plant & Structures, Municipal Bldg., constructing 174th St. bridge over Bronx River, Bronx Boro, to A. McMullen, 50 Church St., $308,000. Noted May 26.

N. J., Point Pleasant—New Jersey Bd. Commerce & Navigation, Trenton, reconstructing bridge over Bayhead-Manasquan Canal, here, to Fox, Reynolds & Co., 81 East 125th St., New York City, $71,360. Noted May 26.

West Virginia—State Hy. Comn., Charleston, three 185 ft. span and five approach span deck truss bridge at Cotton Hill Station, and one 150 ft. and four 25 ft. deck truss span bridge over Honey Creek, both Fayette Co., to Vincennes Bridge Co., Vincennes, Ind., $83,831 and $20,685 respectively; two 30 ft. and one 45 ft. deck girder spans over Salt Creek, Mason Co., to Yoso & Ritchie, Ravenswood. $25,053; Tombelson Bridge, two 30 ft. and one 45 ft. deck girder span, Mason Co., to O. S. Ford, Huntington, $20,919; also two 45 ft. and one 50 ft. deck girder span at Robertsburg, Putnam Co., to Monty Bros., Omar, $25,321. Grand total $175,809. Noted May 26.

Constr. News page 417



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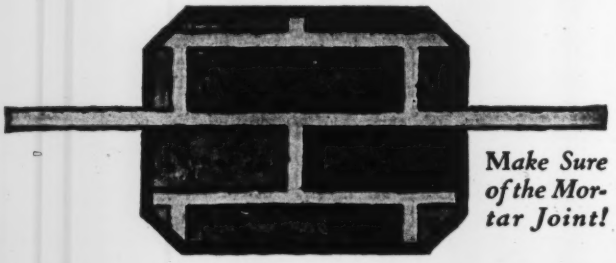

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Bridges (Continued)

Fla., Miami—Portions bridge over Miami River, at Northwest 12th Ave., to F. T. Ley & Co., Inc., Vail Arcade. $257,550. Noted May 19.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis **(e. e. means engrs. est.)**, to Vincennes Bridge Co., Vincennes, steel truss bridge, and 14,000 cu.yd. grading on Road 32, Contr. 142, Hamilton Co., $46,772 e. e. $51,900, and steel truss bridge over Yellow River, on Road 29, Contr. 137, Starke Co. $29,939 e. e. $33,228; to Yost Bros., Decatur, 1 span 28 ft. rein.-con. girder bridge, Allen Co., 1 span 40 ft. rein.-con. girder bridge and 1 span 18 ft. rein.-con. slab bridge, on Road 27, Contr. 136, DeKalb Co. $20,508 e. e. $23,620, to Wasnidge & Leonard, Jasonville, 3 rein.-con. girder bridges on Road 32, Contr. 141 $19,724 e. e. $24,642, and to O. L. Quick, 3 rein.-con. girder bridges on Road 32, Contr. 140 $10,539 e. e. $12,807, both Boone Co.; to Pabst & Fritcha, Woodburn, 2 rein.-con. girder bridges on Road 29, Starke Co., and 1 rein.-con. girder bridge on Road 30, Laporte Co., $13,729 e. e. $15,392; to Tharp & Tharp, Fountain City, 1 rein.-con. girder and 1 rein.-con. arch bridges on Road 34, Contr. 144, Hendricks Co., $31,244 e. e. $32,275; and to L. F. Parker, Bloomfield, 1 rein.-con. slab and 2 rein.-con. girder bridges on Road 32, Contr. 139, Montgomery and Boone Counties, $11,822 e. e. $13,733. Grand total $184,277. Noted May 19.

Ia., Allison—Butler Co., 1 slab, 2 I-beam, and 1 pony truss bridges, also 9 culverts and extensions, to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, $36,210.

Ia., Council Bluffs—Pottawatomie Co., 5 pony truss and 1 concrete arch bridges, also 52 culverts and extensions, on Primary Bridge Products 96 and 229, to Wickham Bridge & Pipe Co., Council Bluffs, $189,000.

Montana — State Hy. Comn., Helena, **(F. A. P. means Federal Aid Project)**, constructing Polson Bridge, 2,014 ft. timber trestle, on F. A. P. 200, Lake Co., to W. P. Roscoe, Billings, $101,116; Cottonwood and Beaver Creek Bridges, one 31 ft. and one 59 ft. steel I-beam spans respectively, on F. A. P. 235-B, Unit 2, Fergus Co., to Yellowstone Constr. Co., Billings, $11,357; Pleasant Valley and Fisher River Bridges, one 40 ft. and one 20 ft. spans, on F. A. P. 58-C, Unit 2, Lincoln Co., to W. K. Trippet, Whitefish, $9,018; also Malta and Glasgow Bridges, F. A. P. 155-A, Unit 2, Valley Co., to L. V. Lockwood, Glasgow, $9,822. Grand total $131,313.

Mo., St. Joseph—One 30 ft. and one 32 ft. rein.-con. arch span bridges over Whitehead Creek, near municipal golf links, also Plattsburg Avenue Bridge, three 18 ft. rein.-con. spans, 30 ft., to W. A. Abrams, Unionville, $18,328 and $5,808 respectively; and Holman Street Subway, 36 ft. rein.-con., 35 ft. wide, to Eberhardt & Shriver, Salina, Kan., $12,594. Grand total $36,730.

Tex., Houston—Bridge repairs, incl. replacing 175 ft. wood approaches with rein.-con., renewing draw span floor and replacing wood treads with metal, etc., to T. B. Hubbard Constr. Co., 1507 Shepherd St., approximately $25,000.

Tex., Wharton—See "Streets and Roads."

Calif., Los Angeles—Los Angeles Co., 8 span 432 ft. rein.-con. bridge over San Juan Creek, to Western Constr. Co., 144 North Larchmont Blvd., $64,663.

Calif., Los Angeles — Bridge over Los Angeles River, at North Spring St., to Western Constr. Co., 144 North Larchmont Blvd., $233,259. Noted May 5.

Calif., Redding—Shasta Co., rein.-con. bridge over Little Cow Creek, to M. A. Jenkins, 36th and Y Sts., Sacramento, $23,644. Noted May 26.

Calif., San Jose—Santa Clara Co., rein. con. bridge over Guadalupe Creek on Alviso and Santa Clara Rd., to Proctor & Cleghorn, Rosenberg Bldg., Santa Rosa, $45,750.

Dams

Proposed Work

Tex., Cuero — Texas Central Power & Light Co., c/o Frost Bldg., San Antonio, takes bids in fall, 35 x 300 ft., rein.-con. and steel dam on Guadalupe River, near here. $1,000,000. Private plans.

Que., Papineauville—T. Bonhomme plans constructing concrete dam and generating station. $50,000.

Bids Desired

N. H., Claremont — Sullivan Mchy. Co., c/o C. T. Main, Inc., engrs., 201 Devonshire St., Boston, Mass., taking bids concrete dam, pipe line and power house. To exceed $25,000.

Railways

Proposed Work

Kentucky and Virginia—Interstate Commerce Comn. authorized Louisville & Nashville R.R. Co., Louisville, Ky., W. H. Courtenay, ch. engr., to build 15 mi. railroad from Chevrolet (Harlan Co.), Ky., across Big Black Mountains of Cumberland Range connecting with its lines in Hagan (Lee Co.), Va.

Texas—E. F. Mitchell, ch. engr. Texas & Pacific Ry. Co., Texas & Pacific Bldg., Dallas, soon takes bids 45 mi. branch line from Breckenridge to Throckmorton. $50,000.

Texas—San Antonio & Aransas Pass Ry. subsidiary of Southern Pacific R.R., R. W. Barnes, ch. engr. (Texas and Louisiana lines), Southern Pacific Bldg., 913 Franklin Ave., Houston, plans 30 mi. line from Falfurrias to Harlingen (now under construction) to Brownsville. This corrects report in June 16 issue.

California — City of San Francisco defeated $4,700,000 bonds, extending railway, etc. in San Francisco. Noted Mar. 10.

Bids Desired

Pennsylvania—See "Unclassified under Subway—Phila., Pa."

Contracts Awarded

Montana—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., Ry. Exch. Bldg., St. Paul, 62 mi. standard gauge railway, incl. approximately 2,000,000 cu.yd. excav., to Foley Bros. 207 Gilfillan Bldg., St. Paul, Minn., approximately $1,000,000. Noted Dec. 9.

Arkansas and Tennessee—See "Unclassified."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Neponset—Barney & Carey Co., 49 Vassar St., plans retaining wall and fill solid in Neponset River opposite tracks New York, New Haven & Hartford R.R. Private plans.

Ill., Evanston—City making plans 1,700 ft. seawall from Hamilton St. northward. $40,000. A. W. Handford, comr. Pub. Wks.

Ark., Lake Village—Chicot Co. Drainage Dist., J. Sloss, chn., takes bids about July 14, rein.-con. sluiceway for drainage ditch. $100 000. Ayres & Miller, McCall Bldg., Memphis, Tenn., engrs.

Tex., Harlingen—Navigation Dist. c/o J. B. Chambers, making preliminary plans channel to connect with Colorado River thence to Gulf. $500,000. Private plans.

Tex., San Benito—San Benito Navigation Dist., c/o L. L. Zenor, plans ship channel. $200,000.

Bids Desired

Mass., Cambridge (Boston P. O.)—Cambridge Electric Light Co., 46 Blackstone St., taking bids concrete retaining wall, Blackstone St. $40,000. H. R. Kents, 5 Erie Ave., Rutherford, N. J., archt.

Louisiana—July 12, by State Hy. Comn., Baton Rouge, constructing roadway embankment and drainage structures on 8 mi. New Orleans-Fort Jackson Highway, State Project 346-C-3, Plaquemines Parish. N. W. Bowden, highway engr.

Ind., Richmond—July 5, by Bd. Comrs. Wayne Co., straightening channel West Fork of Whitewater River, approximately 2 mi. north of Chester.

Ill., Quincy — July 8, by Comrs. Lima Lake D. D., at office W. J. Smith, clk. Adams Co., pumping plant, incl. foundation, building, three 36 ft. centrifugal pumps, etc., also 8 highway bridges. Goodell & Millard, Beardstown, dist. engrs.

Ark, Osceola — July 12, by Bd. Comrs. Sub-Dist. 3 of Grassy Lake & Tyronza D. D. 9, Mississippi Co., drainage work, 125,000 cu.yd. excav.

Mo., St. Louis—See "Waterworks."

Tex., Bishop — July 6, by Nueces Co., Bishop-Driscoll D. D. 3, canals, drains, ditches, laterals, 33 bridges, etc., for proposed drainage system, 458,184 yd. excav. $125,000. Private plans. Noted Jan. 20.

Calif., La Mesa—July 7, by Directors La Mesa, Lemon Grove & Spring Valley Irrigation Dist., digging 1,560 ft. trench, 30 in. wide, 46 in. deep, and 150 ft. trench 20 in. wide, 42 in. deep, also laying 4,280 ft. 6 and 14 in. pipe, etc. in various streets. T. H. King, La Mesa, engr.

Quebec—July 5, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging Riviere du Loup, here. $24,000.

Contracts Awarded

Mass., Falmouth — Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, dredging anchorage basin, Falmouth Inner Harbor, here, to Trimont Dredging Co., 101 Tremont St., Boston, $26,525.

New York—T. F. Farrell, comr. Canals & Waterways, State Pub. Wks. Bldg., Albany, bank protection at various locations along Erie Canal from Lock 10 to Herkimer-Oneida Co. Line, Contr. 236, to Amer. Pipe & Constr. Co., Amsterdam, $183,050. Noted May 26.

N. J., Seabright — Bd. Town Comrs., Town Hall, concrete and stone bulkheads and jetties, to J. A. Howland, Woodmere Ave., Rumson, $65,000.

Miss., Asa (mail Batesville) — Panola-Quitman D. D., c/o L. B. Lamb, Marks, 500 ft. levee, etc., to H. N. Rodgers, 62 South Front St., Memphis, Tenn., approximately $25,000. Noted May 26.

Ind., East Chicago—A. Given, excavating contract for 6 story and basement, rein.-con., brick, steel and terra cotta hotel and store building, Chicago and Magoun Sts., to Joyce Co., East Chicago. Archts. total est. $600,000.

Ark., Pine Bluff—English Levee Dist. 3, Jefferson Co., L. W. Clemmons, chn., approximately 100,000 cu.yd. earthwork, etc., to Hency Constr. Co., Pine Bluff. Noted June 16.

Tex., McAllen — Hidalgo Co. Water Impvt. Dist. 3, concreting 50,000 lin.ft. irrigation canal, to Gunite Machine Co., Allentown, Pa., approximately $150,000.

Calif., Grass Valley—B. W. Baldwin, secy. Nevada Irrigation Dist., constructing Milton Pipe Line, wood stave pipe, to Pacific Tank & Pipe Co., 320 Market St., San Francisco, $67,441. Noted May 26.

Ontario — Dept. Pub. Wks., Ottawa, dredging in Kincardine, to Kilmer & Barber, 10 Adelaide St. E., Toronto, $17,390, and in Coburg, to J. P. Porter & Son, St. Catharines, $19,800.

Ont., Midland—Dominion Govt., Ottawa, dredging, here, to Randolph Macdonald Co. Ltd., Crown Office Bldg., Toronto, $135,150. Noted May 12.

Streets and Roads

Proposed Work

New Hampshire—State Hy. Dept., Concord, plans 6 in. rein.-con. on 4 in. gravel paving 3.475 mi. Granite State Park Rd., and 1.553 mi. East Side Rd. in Strafford Co., 18 ft. $197,838. W. A. Graves, Portsmouth, engr.

Mass., Boston—Dept. Pub. Wks. plans laying out and constructing Lafield St., Dorchester, Canton St., Hyde Park, and Euston Rd., Brighton, as highways. $25,000 or more. J. H. Sullivan, comr.

Mass., Waltham (Ind. br. Boston) — Plans improving various streets. $50,000 appropriated. Private plans.

Mass., West Roxbury (br. Boston)—Dept. Pub. Wks., Boston, plans laying out and constructing Nikisch Ave., Aldrich Newburg and Willow Sts. as highways, here. $25,000 or more. J. H. Sullivan, comr.

Conn., Bridgeport—Rejected bids bituminous macadam paving 25,000 sq.yd. various streets. To exceed $25,000. Work will probably be done by day labor under supervision A. J. Northey, supt. Pub. Wks. J. A. McElroy, city engr. Noted May 26.

N. J., Midvale—Bd. Freeholders Passaic Co., Paterson, making plans grading and bituminous concrete paving 4.5 mi. Midvale-Greenwood Rd. G. Fergusson, Paterson, co. engr.

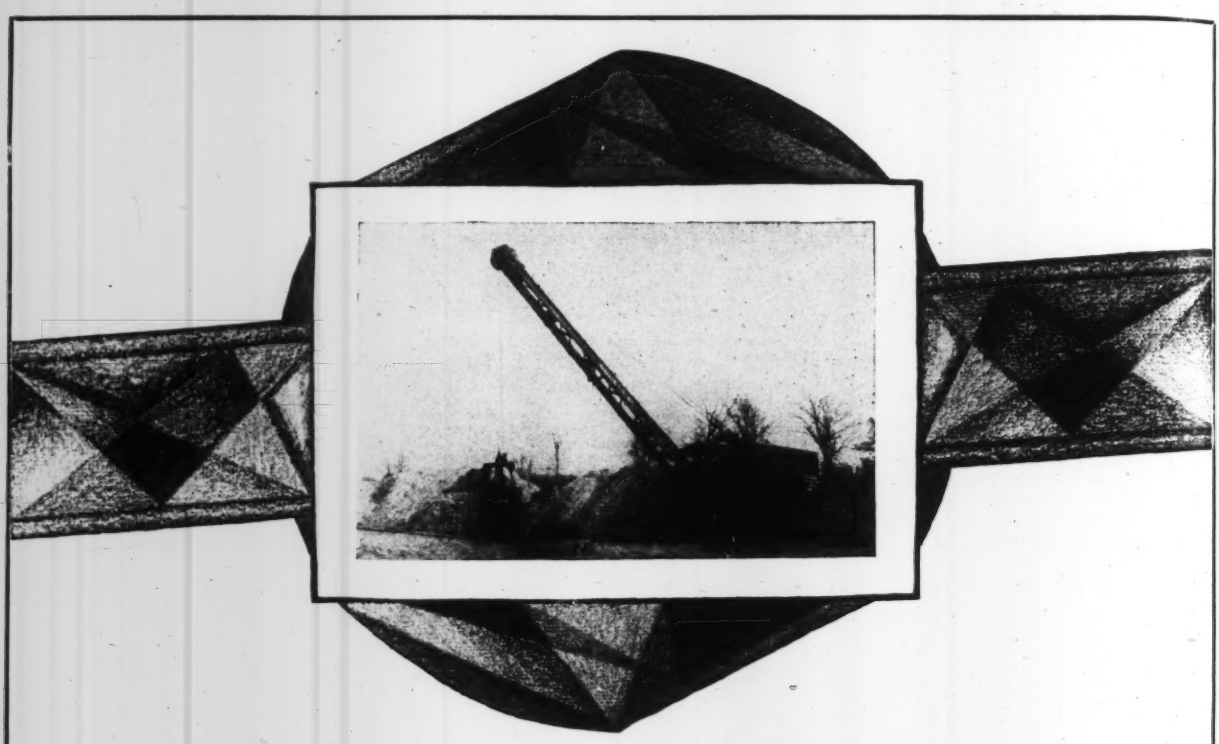
Pa., Bristol—Boro Council, J. R. Grundy, chn. road com., making plans concrete paving, etc. 4,100 ft. Radcliffe St. Engineer not selected.

Fla., Fort Meade—Comrs. Polk Co. plan widening highway between Fort Meade and Frost Proof, also reconstructing bridge over Peace River. $150,000. J. Singletary, co. comr.

Tennessee — State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Nashville-Goodlettsville Rd., State Road 11, Davidson Co. C. N. Bass, highway comr.

Tenn., Brownsville—Haywood Co. and State Dept. Highways & Pub. Wks., Nashville, plan improving 15 mi. Brownsville-

Constr. News page 418



40% AHEAD OF ITS TIME—ON CONTRACT

Where time is money, the Industrial pays

Another user writes, "The contract on which the Industrial is working is about 40% ahead of its time, due largely to the Industrial being able to go ahead, preparing the right of way in order that the other work will not be interfered with."

That's what every contractor wants. Not equipment that merely keeps up the schedule but machines that keep well ahead of it. The Industrial affords protection against costly delays where the time element is a factor.

Significant in the securing of these results is the sturdy construction, patented steering arrangement and all around ease of operation of the Industrial.

Another feature is its adaptability to various kinds of work and speed of operation. Our engineering service covers more than just suggesting the type of Industrial Crawler best suited for your work. Periodical inspection of your equipment by one of our engineers means better service and more of it.

Bulletin covering the construction and operation of the DC Crawler sent at your request.

Crawling Tractor Cranes, Shovels, Draglines, Locomotive Cranes, 5 to 75 tons, Wrecking Cranes, 75 to 200 tons, Freight Cranes, Transfer Tables, Railsaws, Pile Drivers, Clamshell Buckets, Steam Pile Hammers.

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Streets and Roads (Continued)

Lauderdale Co. line Rd. C. N. Bass, highway comr.

Tenn., Union City—Plans rock asphalt, concrete and gravel surfacing portions various streets. To exceed $25,000.

Kentucky—State Hy. Dept., Frankfort (**S.A.P. means State Aid Project**), plans reconstructing 2 mi. Danville-Lancaster Rd., S.A.P. 96, and 2 mi. Danville-Burgin Rd., S.A.P. 168, both Boyle Co., 7 mi. Carlisle-Cynthiana Rd., S.A.P. 58½ Nicholas Co., 5 mi. Mayslick-Wedonia Rd., S.A.P. 173, and 6 mi. Marysville-Mt. Olivet Rd., S.A.P. 172, both Mason Co.; surfacing 5 mi. Leitchfield-Elizabethtown Rd., S.A.P. 12-A, Grayson Co., 6.7 mi. Salyersville-Paintsville Rd., S.A.P. 34 Magoffin Co., 7.3 mi. Salyersville-Paintsville Rd. S.A.P. 84 Johnson Co., 8 mi. Corbin-Williamsburg Rd., S.A.P. 35 Whitley Co., and 5.7 mi. Jamestown-Liberty Rd., S.A.P. 23 Russell Co.; grading, etc. 10 mi. Paintsville-Inez Rd., S.A.P. 34 Johnson Co., 5 mi. Bowling-Green-Morgantown Rd., S.A.P. 11 Warren Co., 10 mi. Frankfort-New Castle Rd., S.A.P. 64½ Franklin Co., 6 mi. Warsaw-Florence Rd., S.A.P. 13 Gallatin Co., and 8 mi. Greensburgh-Edmonton Rd., S.A.P. 1 Green Co. E. N. Todd, highway engr.

O., Cincinnati—Hamilton Co. plans curbing, walks and concrete repaving, etc 57,600 sq.yd. Montgomery Rd. $311,783. E. A. Gast, Court House, engr.

O., Columbus—O. Moore, clk. Franklin Co., soon takes bids grading and water-bound macadam paving, etc., 3 mi. Lithopolis Rd., Madison Twp., 18 ft $70,000.

Mich., Detroit—Making plans curbing, and 3½ in. sheet asphalt on 8 in. concrete paving 11 streets, using stone curbing $316,030, concrete curbing $292,330. P. A. Fellows, city engr.

Mich. Grosse Pointe Park (mail Grosse Pointe)—Made plans one course 8 in. concrete paving approximately 10,000 sq.yd. and sheet asphalt paving approximately 2,000 sq.yd. Hally Pl. and Charlevoix Ave. $25,000. C. H. Marden, 502 Garrick Theatre Bldg., Detroit, engrs.

Ill., Berwyn—Plans grading, curbing and concrete paving, etc. various streets. $35,000. J. J. Kearney, City Hall, engr.

Ill., Decatur — Plans grading, curbing and asphalt and granite concrete paving 5 blocks East Prairie, 3rd and South New Sts., 36 ft. M. P. O'Brien, City Hall, engr.

Ill., East St. Louis—Making preliminary plans asphalt on brick resurfacing 1,200 ft. Main St. W. McK. Brown, City Hall, engr.

Ill., Forest Park — Making preliminary plans widening and concrete paving various streets, etc. $80,000. Suhr & Berryman, 105 North Clark St., Chicago, engrs.

Ill., Galesburg—Plans grading, curbing and guttering 6 blocks East and West Berrien St. $28,988. A. L. Richey, City Hall, engr.

Ill., Geneseo—Plans grading, curbing and 7 in. rein.-con. paving 15,000 sq.yd. North Aldrich, Park, West 2nd, South Vail and North Center Sts., etc. $45,000. S. Ogden, City Hall, engr.

Ill., Harrisburg—Saline Co. voted $450,000 bonds, grading, gravel surfacing, etc., 51 mi. various roads.

Ill., Morris — Soon takes bids grading, curbing and concrete paving various streets. $50,000. P. J. Keller, City Hall, engr.

Ill., Knoxville — Plans grading, curbing, guttering and vertical fibre brick paving Broad St. $55,888. F. M. Connolly, Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., Peoria—Plans grading, curbing and vitr. brick on concrete paving West Nebraska St.; and concrete paving University, Macqueen and Hurlburt Sts. $60,000. W. E. Backes, City Hall, engr.

Ill., Sparta — Making preliminary plans grading, curbing and hard-surfacing 10,000 sq.yd. various streets.

Ill., Sparta—Making preliminary plans grading, curbing, sidewalks, 7 in. rein.-con. paving, etc. 7,800 sq.yd. Paving Dists. E and F. $39,330. Bruce & Grupe, 710 Bankers Reserve Life Bldg., Omaha, Neb., engrs.

Ill., Venice—Making preliminary plans removing present wood block paving and brick and rein.-con. repaving portions Bway. and Main St. $99,883. Sheppard & Morgan, Edwardsville, engrs.

Ill., Winchester — Making preliminary plans grading, curbing, rein.-con. paving 19,000 sq.yd. Main St. and around Court House Sq. W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., engrs.

Ia., Fairfield—Soon takes bids grading sewers, concrete paving, and brick, sheet asphalt, Warrenite, bitulithic or concrete resurfacing, etc., various streets. Brown & Cook, 108 North Market St., Ottumwa, engrs.

Kan., Abilene—Clerk Dickinson Co., soon takes bids grading and 4 bridges, etc. on 12.058 mi. Federal Aid Project 370-A, 30 ft. C. L. Nicholay, Court House, engr.

Kan., Seneca—Nemaha Co. making plans grading, and two 30 ft. I-beam span and one 60 ft. truss span, bridges 20 ft. wide, on 9.129 mi. Federal Aid Project 319-C, 30 ft. L. P. Price, Court House, engr.

Mo., Joplin—Soon takes bids grading and concrete paving 7 blocks Murphy and Sergeant Aves. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Slater—Making plans probably 6 in. concrete paving 8,000 yd. various streets. $25,000. Bond election soon for same. E. T. Archer & Co., 609 New England Bldg., Kansas City, engrs.

Mo., Trenton — Plans paving various streets. To exceed $25,000.

Ark., Arkadelphia—Soon takes bids grading, curbing and hard-surfacing 60 blocks various streets.

Tex., Alamo Heights — Voted $180,000 bonds, paving, etc. various streets. S. F. Crecelius, 201 Torcido Dr., San Antonio, engr.

Tex., Angleton—Brazoria Co. voted $100,000 bonds, highway improvement. H. W. Munson, Jr., Angleton, engr.

Tex., Anson—Jones Co making plans concrete paving 1.4 mi. Highway 18 from Stamford to Haskell Co. line $35,000. J. W. Puckett, Stamford, engr.

Tex., Batesville—Zavalla Co., plans grading, bridging and graveling 4.94 mi. Highway 55, 18 ft. $27,000. G. M. Jowers, Batesville, engr.

Tex., Borger (Plemons P. O.)—Voted $30,000 bonds, paving various streets. Address L. Miller, mayor.

Tex., Corsicana—Navarro Co. voted $2,690,000 bonds, concrete paving main highways in Consolidated Rd. Dist. 1. W. W. McClendon, Corsicana, co. engr.

Tex., Dalhart—Voted $25,000 bonds, paving 8 blocks various streets. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs.

Tex., Falfurrias — Brooks Co. making plans rein.-con. paving 15 mi. Highway 12. $325,000. C. K. Kendall, Falfurrias, engr.

Tex., Houston—Harris Co. rejected bids May 23, shell shoulders on 17.6 mi. La Porte Rd. $40,000. Will readvertise. A. J. Wise, Houston, engr.

Tex., Linden—Class Co. making plans 1 in. rock asphalt on stone paving 5.64 mi. Highway 6. $110,000. S. B. Jones, resident engr.

Tex., Navasota—Grimes Co. soon takes new bids 6 in. rein.-con. paving 6.71 mi. Highway 6, Federal Aid Project 471-B, 18 ft. $170,000. Former bids returned unopened. O. A. Seward, Jr., Navasota, engr.

Tex., San Antonio—See "Unclassified."

Wash., Seattle — Bd. Pub. Wks. soon takes bids paving 15 mi. 14th Ave. N. W., 12th Ave. N. W., and Alki Ave. $600,000. W. C. Morse, city engr.

Wash., Seattle—City Council plans precast concrete slab paving (track area) Beacon Ave. between golf links and 14th Ave. $31,800. W. C. Morse, city engr.

Wash., Vancouver—Comrs. Clarke Co., take bids about July 13, crushed rock surfacing 3 mi. Clarke Co. Highway connecting with Pacific Highway. $30,040. C. Deko, Vancouver, engr.

Calif., Los Angeles—City, cancelled contract grading, curbing, guttering and concrete paving, etc., 998,218 sq.ft. San Fernando Rd. Will readvertise. Noted June 2.

Calif., San Francisco — Voted $900,000 bonds, walks and paving, etc., and $500,000 bonds, purchasing necessary lands, etc., Bernal Cut Project.

Calif., Santa Cruz—S. A. Evans, city clk., rescinded contract grading, curbing, walks and concrete paving, etc., Soquel Ave. Noted June 23.

Calif., Tulare — Making specifications oiling 200 blocks various streets.

Calif., Ukiah—Mendocino Co. making plans constructing Charles Hurt Highway (Sect. 1), 7,000 cu.yd. excav. 500 lin. ft. 8- to 24-in. corrugated iron and 300 lin.ft. 12- to 24-in. concrete pipe, etc.

Que., Hull—T. Lanctot, engr., City Hall, soon takes bids asphalt paving Chelsea Rd. and Champlain St., etc., for City. $40,000.

Bids Desired

New Hampshire—July 8, by State Hy. Dept., Concord, 6 in. mesh rein.-con. on 4 in. gravel paving 53,170 sq.yd. road in Strafford Co., $198,000, W. A. Graves, Portsmouth, engr.; also 3 in. bituminous macadam on 5 in. crushed gravel paving 8,500 sq.yd. in Belknap Co., $26,000, H. L. Smith, Lakeport, engr.

Massachusetts — July 5, by Dept. Pub. Wks., Boston, bituminous macadam paving 10,149 ft. highway in Amesbury and Salisbury, 12,872 ft. in Monson, 3,550 ft. in Braintree, and 3,395 ft. in Dover and Medfield; bituminous concrete paving 1,900 ft. in Gay Head; and rein.-con. paving 5,250 ft. in Taunton, all 18 ft. W. F. Williams, comr.

Mass., Boston — July 5, by Dept. Pub. Wks., grading various streets; July 6, sidewalks on various streets. $25,000 or more. J. H Sullivan, comr.

Mass., Boston—July 7, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Beacon St., Ward 5. $25,000. J. H. Sullivan, comr.

Mass., Boston — July 8, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Brookline Ave., Wards 4 and 10. $28,000 bonds J. H. Sullivan, comr.

Mass., Brookline (br. Boston) — See "Contracts Awarded."

Mass., Foxboro—July 5, by Bd. Selectmen, reconstructing and sheet asphalt or bituminous macadam resurfacing Central St. $25,000. Private plans.

Mass., Hingham—July 15, by Hingham High School Building Comn., grading and walk around high school, Central St. $25,000. A. A. Shurtleff, 1 Beacon St., Boston, engr.

New York—July 13, by A. W. Brandt, comr. Highways, Albany, constructing highways in Chemung, Chenango, Genesee, Niagara, and Washington Counties; reconstructing highways in Erie, Greene, Livingston, Monroe, Ontario, Orleans, and Washington Counties; adv. E. N.-R June 30.

N. Y., New York—July 6, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, asphalt block on concrete repaving, etc. Fort Washington Ave., South St. and Marginal St. Wharf, etc. repaving 168th St.

N. Y., Poughkeepsie — July 14, by Bd. Pub. Wks., Eastman Park Mansion, grading, curbing, sewer, sheet asphalt, granite block and concrete paving Dean Pl., Academy, New Market and Market Sts. Former bids rejected. T. F. Lawlor, supt.; adv. E. N.-R. June 30. Noted June 9.

N. Y., Syracuse—July 5, by Bd. Contr. & Supply, City Hall, grading, 7,867 sq.ft. concrete sidewalks, etc. at Washington Irving School; 8,740 sq.ft. sidewalks, etc. on Pond, Hutchinson and Craig Sts. N. F. Pitts, Jr., City Hall, engr.

N. J., Waldwick—July 7, by Mayor and Boro Council, Maretene Bldg., grading, curbing and sidewalks on Franklin Turnpike, Harrison, Lafayette, Park and Lincoln Pls., Prospect, Wagner, Conklin, Grove Sts., Wanamaker, Cleveland, Maple, Learington, Harrison, Highwood Aves., etc. G. Christman, Jr., boro clk.

Pennsylvania — July 15, by State Hy. Comn., Harrisburg, grading and bituminous on rein.-con. paving approximately 33 mi. 22 projects in 18 counties; also 2 bridges in Luzerne Co. J. L. Stuart, secy. highways; adv. E. N.-R. June 30.

Pa., Phila.—July 1, by Dept. City Transit, H. E. Ehlers, dir., approximately 9,000 sq.yd. granolithic sidewalks on both sides Broad St. between Filbert and Noble Sts.

Pa., Phila.—July 6, by Dept. Pub. Wks., Bureau of Highways, Schedule A, asphalt paving (assessment work) approximately 47,490 sq.yd. 18 streets; Schedule B, asphalt repaving 70,340 sq.yd. Hunting Park Ave. (shoulders); Schedule C, improving 6,750 sq.yd. N and Wissahickon Lane (country roads). G. H. Biles, dir.

Maryland—July 5, by State Roads Comn., Baltimore, concrete paving 2.6 mi. Contr. Co-44, Caroline and Dorchester Counties; 1 mi. Contr. M-76, and 1.15 mi. Contr. M-78, Montgomery Co. J. N. Mackall, chn.; adv. E. N.-R. June 30.

Md., Baltimore—July 6, by Bd. Awards concrete paving 17,190 sq.yd. streets listed in Contr. 412; 12,520 sq.yd. streets listed in Contr. 413. S. Purcell, City Hall, Baltimore, highway engr.

West Virginia—July 12, by State Road Comn., Charleston (**P. means Project**), stone base course paving 2.3 mi. Sissonville-Jackson Co. line Rd., P. 3259, Kanawha Co.; gravel surfacing 14 mi. Summersville-Line Creek Rd., P. 3047-A and B, and part of P. 3180, 5.6 mi. Line Creek Rd., P. 3180, and 4.7 mi. Little Creek-Belva Rd. 68 and 3181 all Nicholas Co., 6 mi. Midkiff-Ranger Rd. P. 2164, 6 mi. Ranger-Hart Rd. P. 3169, and stone, slag or gravel surfacing 4.5 mi. Hart-Toney Rd., P. 3169 and 2169 all Lincoln Co., 5.5 mi. Toney-Chapmanville Rd., P. 3282 Lincoln and Logan Counties, 6 mi. Chapmanville-Pecks Mill Rd., P. 3282 and 3288 Logan Co., 2.7 mi. Pecks Mill-Henlawson Rd., P. 3290 Logan Co., and 11 mi. Ripley-Mason Co. line Rd., P. 3074-A, B and D, Jackson Co.; rock asphalt or bituminous macadam surfacing 11.6 mi. Northwestern Turnpike, P. 3203-D, E and

Constr. News page 419

The R-72 Drifter

Speed! Speed! Speed!

A million dollars a year will be saved by the Great Northern Railway when it runs its trains through the 8-mile tunnel now being driven for it through the Cascade Range.

It is the urge of this possible saving that calls for the completion of the tunnel within the amazingly brief span of three years. The contractor has accepted this wager against time and is making records that have already aroused world-wide interest.

At every heading, 24 hours a day—day in and day out—his drill crews and muckers are going into and through the rock. The race is one in which the keenest sort of fair rivalry prevails among the competing crews. It is a sporting proposition that never lags;—it is a contest that calls for unfaltering determination to win; for the finest kind of teamwork; and for the very best of tools.

At Mill Creek and at the East Portal sections of the job, R-72 Drills are used; and these rapid, sturdy, and dependable drifters have held their own, shift after shift, making it possible to attain a daily footage in some instances of more than 40 feet when driving a 10 x 10-foot heading through hard granite.

A. Guthrie & Co., Inc., of St. Paul, Minn., and Portland, Ore., is putting through this railroad tunnel — the longest of its kind yet undertaken in the United States.

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Ingersoll-Rand

Streets and Roads (Continued)

F. Preston Co.; also Flag Run Bridge, 60 ft., steel pony truss superstructure on concrete substructure, P. 3203, Preston Co., and Paw Paw Bridge over north branch Potomac River, one 200 ft. and two 100 ft. steel thorough truss spans with five 40 ft. deck girder approach spans, P. 3396, Wetzel Co. E. B. Carskadon, secy.

West Virginia — July 14, by State Road Comn., Charleston **(P. means Project)**, grading, etc. 5 mi. Braxton Co. line Rd., P. 3285-D Clay Co., and 7 mi. Moorefield-Baker Rd., P. 3214-C, Hardy Co.; stone base course surfacing 4 mi. Wolf Creek-Sinks Grove Rd., P. 137-B, and 4 mi. Sinks Grove-Pickaway Rd., P. 137-C, Monroe Co., also 5.5 mi. Pence Springs-Griffiths Creek Rd., P. 1103 and 3056, Summers Co.; bituminous macadam paving 5 mi. Lowell Big Bend Rd., P. 3375-A and B, Summers Co.; widening and bituminous macadam paving 2 mi. Pennsboro-Doddridge Co. line Rd., P. 2092-A, and 2 mi. same road P. 2092-B, Ritchie Co.; delivering 20,000 cu.yd. gravel at Leon, Arbuckle or Robertson, P. 3352, Mason Co. and 20,000 cu.yd. at or near Red House, P. 3326-C and 3332, Putnam Co.; gravel surfacing 7 mi. Woods-Redhouse Rd., P. 3326 and 3332, Putnam Co.; concrete shoulders on 3.5 mi. Martinsburg-Bunker Hill Rd., P. 67, Berkley Co.; concrete paving 4 mi. Beverly-Huttonsville Rd., P. 152-A, Randolph Co., and 3.5 mi. Porterwood-Parsons Rd., P. 3029 and 3143-A, Tucker Co. E. B. Carskadon, secy.

West Virginia — July 19, by State Road Comn., Charleston **(P. means Project)**, stone base course paving 1.55 mi. Midland Trail P. 157, and 1.78 mi. New River-Beckwith Rd., P. 157, Fayette Co.; grading, etc. incl. bridge abutments, 5 mi. Renick-Frankford Rd., P. 736-D, Greenbrier Co.; grading 6 mi. Mineral Wells-Wirt Co. line Rd., P. 3337-A and 5 mi. same road Sect. 5, both Wood Co., also 6 mi. Waybright-Bruceton Mills Rd., P. 3380-B, Preston Co.; bituminous macadam surfacing 4 mi. Frankford-Maxwelton Rd., P. 136-E, Greenbrier Co.; bituminous macadam or concrete surfacing 1.5 mi. Hundred-Pennsylvania State line Rd., P. 3396, Wetzel Co.; bituminous macadam surfacing, incl. concrete shoulders 3 mi. Clarksburg-West Milford Rd., P. 3405, Harrison Co.; concrete shoulders on 3.5 mi. Martinsburg-Bunker Hill Rd., P. 67, Berkley Co.; gravel surfacing 7.5 mi. Leon-Robertsburg Rd., P. 3352, 5.7 mi. Mercers Bottom-Gallipolis Rd., P. 3315, and 5 mi. same road, P. 3362, all Mason Co. 3.6 mi. Ripley-Sandyville Rd., P. 3164-A and 3.5 mi. same road, Project B, both Jackson Co.; gravel surfacing approaches to Buffalo Bridge, P. 3326-B, Putnam Co.; stone, slag or gravel surfacing 8.9 mi. Fleming-Dunlow Rd., P. 3202-A and B, 7.4 mi. Dunlow-Bull Creek Rd., P. 3190, and 5.56 mi. Bull Creek-Crum Rd., P. 3189, all Wayne Co.; surface treating 8 mi. Fairplane-Kenna Rd., P. 30 75-B and C, Jackson Co.; and furnishing stone, slag or gravel for surfacing 21.86 mi. Fleming-Crum Rd., P. 3202-A and B, 3190 and 3189, all Wayne Co. E. B. Carskadon, secy.

W. Va., Charleston — July 6, by R. N. Moulton, clk. Kanawha Co., grading, etc., 50,000 cu.yd. Point Creek Rd. $50,000. C. Ross, Charleston, co. engr.

W. Va., Fayetteville—July 6, by Fayette Co. Court, grading and bituminous macadam surfacing 7,000 ft. Meadow Fork Rd. J. C. Hurt, clk.

W. Va., Huntington—July 5, by Bd. City Comrs., H. L. Yeich, comr. streets, grading, curbing and paving portion 5th St. A. B. Maupin, city engr.

W. Va., Middlebourne—July 12, by Court Tyler Co., river gravel or slag surfacing 7 mi. Friendley-Stewarts Run Rd., 2.5 mi. Little Buffalo-Camp Ground Rd., 1 mi. Beus Run-Arvilla Rd., and 1 mi. Mt. Zion-Everett Rd., also river gravel, slag or stone surfacing 2.5 mi. Little Shiloh Rd., all Union Dist.; river gravel or slag surfacing 3.7 mi. Oil Ridge-Buck Run Rd., 1.1 mi. Little Buffalo Run Rd. and 3.5 mi. Pursley-Next Rd., all Lincoln Co.; two 45 ft. span concrete deck girder bridges over Point Pleasant Creek, Sugar Creek Bridge, one 30 ft. standard concrete slab near Wick, and Jefferson Run Bridge, one 20 ft. span concrete slab or deck girder. J. J. Straight, pres.

W. Va., New Martinsville — July 2, by Court Wetzel Co., grading, etc., 5 mi. Smithfield-Marion Co. line Rd., Project 2, Grant Dist. G. A. Harmon, county court clk.

Fla., Daytona Beach—July 5, by W. A. Richards, city mgr., curbing, guttering, sewers, widening and paving North Beach St. $150,000.

Fla., Dunedin—July 5, by City Comrs., grading, curbing, sidewalks, sewers and paving 28,610 sq.yd. various streets. R. N. Turner, city clk.

Ala., Fairfield—July 12, by Bd. Revenue, Jefferson Co., Court House, Birmingham, asphalt resurfacing 14,000 sq.yd. North and South Highway through Fairfield known as Gary Ave. from northern city limits of Fairfield to beginning of North Bessemer Rd., here. C. J. Rogers, co. highway engr.

Miss., Biloxi — July 5, by Bd. Supervs. Harrison Co., Gulfport, grading, and 2 in. warrenite-bitulithic on concrete paving 2 mi. Pineville Rd. and Porter Ave., here. W. S. Hawkins, Gulfport, engr.

Miss., Belzoni — July 6, by Supervs. Humphreys Co., improving 4.724 mi. Federal Aid Project 179-C, 1,093 cu.yd. excav., 41,938 cu.yd. borrow, and bridges over 20 ft. span, 50,385 lb. reinforcing, 3,600 ft. foundation piling, etc. H. C. Dietzer, Jackson, engr.

Miss., Winona—July 14, by Bd. Supervs. Montgomery Co., improving 4.324 mi. Federal Aid Project 46-B, 19,192 cu.yd. excav., 14,359 cu.yd. borrow, 195 ft. 18 in. culvert pipe, 35,539 lb. reinforcing, 44 ft. concrete hand rail, 2.7 mi. Bermuda sod, 35,386 ft. creosoted and 1,008 ft. untreated lumber, 1,864 lin.ft. creosoted and 920 ft. foundation piling, etc. H. C. Dietzer, Jackson, engr.

Ky., Louisville—July 5, by Bd. Pub. Wks., City Hall, constructing 9 streets.

O., Beachwood (br. Cleveland)—July 12, by Village, grading and paving, etc., 4 streets. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

O., Cleveland — July 2, by Bd. Comrs. Cuyahoga Co., paving Windfall Rd., to exceed $25,000; also concrete resurfacing North Woodlan Rd. 2; $51,700. F. Lander, Court House, engr.

O., Hudson—July 7, by Village, grading, walks and paving, etc., 6 streets. M. P. Lauer, Pythian Temple Bldg., Akron, engr.

Ind., Anderson—July 15, by Comrs. Madison Co., concrete paving 1¼ mi. 19th St., 26 ft. $57,000. A. B. Steele, Anderson, co. surv.

Ind., Anderson—Aug. 15, by Comrs, Madison Co., concrete curbing and paving ¾ mi. Locust St. 28 ft. $48,500. A. B. Steele, Anderson, co. surv.

Ind., Brownstown—July 2, by Bd. Comrs. Jackson Co., at office S. Carr, aud., Courthouse, concrete paving Charles Vogel et al Rd., Jackson Twp. $49,998; John H. Atkins et al Rd., Brownstone Twp., $73,845; and Charles L. Ackerman et al Rd., Pershing Twp., $4,805.

Ind., Crawfordsville—July 5, at office B. E. May, aud. Montgomery Co., concrete paving Grant Ward et al Rd. $74,520, and William A. Davidson et al Rd. $53,690, both in Union Twp.; also Charles E. Gregory et al Rd., Clark Twp., $7,161.

Ind., Lebanon — July 6, at office Bd. Comrs. Boone Co., Court House, grading, graveling, etc., highway in Marion Twp. $10,125; and highway in Jackson Twp., $8,004. M. Harvey, aud.

Ind., Monticello—July 6, by Bd. Comrs. White Co., at office C. Scott, aud., improving 10,488 ft. Frank May et al Rd., Princeton Twp., $15,742; 10,659 ft. Martha Miller et al Rd., Honey Creek Twp., $15,128; 8,225 ft. James H. Thomas et al Rd., in Jackson Twp., $12,417; and Clarence W. Stone et al Rd., Monon Twp., $10,471.

Ill., Chicago — July 21, by H. C. W. Lubenheimer, clk., Sanitary District of Chicago, 910 South Michigan Ave., substructure double leaf trunnion bascule bridge over Main Drainage Channel, on line Crawford Ave. T. J. Crowe, pres.; adv. E. N.-R. June 30.

Wisconsin—July 5, by State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, grading, graveling, etc., 32,908 cu.yd. St. Croix Falls-Superior Rd., Federal Aid Project 407-C, Douglas Co. H. J. Kuelling, Madison, highway engr.

Wisconsin—July 8, by State Hy. Comn. and Hy. Com. of Door, Calumet, Kewaunee and Winnebago Counties, Div. Office 3, Green Bay, graveling or crushed stone surfacing 5,544 cu.yd. Federal Aid Project 391-B, and 12,452 cu.yd. State Project 3111, Door Co., J. M. Laurie, Sturgeon Bay, comr.; grading, etc. 14,727 cu.yd. State Project 3034, Kewaunee Co., H. Gries, comr., Kewaunee; concrete paving, etc. 25,968 sq.yd. State Job 3140, Calumet and Winnebago Counties, O. C. Rollman, div. engr.

Ia., Cedar Rapids—July 7, by City, paving 12,130 sq.yd. various streets. $30,000. L. J. Storey, city clk. Noted June 16.

Ia., Danbury—July 11, by City, grading, curbing, guttering and paving 40,000 sq.yd. various streets. $105,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Dec. 30.

Ia., Davenport — July 5, by H. W. Phillips, supt. Pub. Constr., City Hall, grading, curbing, guttering, resurfacing, and 4 in. vitr. brick paving, etc., Mississippi Ave. L. E. Sneary, city engr. Noted Feb. 17.

Ia., Pella — July 6, by A. C. Kuyper, city clk., grading, curbing, guttering, rein.-con., vibrolithic rein.-con., Johnson rein.-con., sheet asphalt, warrenite bitulithic or vitr. brick paving 75,000 sq.yd. various streets. Brown & Cook, 108 North Market St., Ottumwa, engr.

Ia., Sioux City—Taking bids curbing and paving 29,188 sq.yd. Riverside Dr., Wright, Bloise, and La Plante Sts. $62,363. L. N. Hintgen, City Hall, engr.

Minn., Hastings—July 11, by R. W. Downs, aud. Dakota Co., concrete pavins approximately 23,416 sq.yd. State Aid Rd. 7 between Minnesota Trunk Highway 1 and South Robert St.; also 15,800 ft. wire rope guard rail, etc. on State Aid Rd. 7 between Mendota and South St. Paul. $65,000. J. Swan, Hastings, co. engr.

Minn., Fergus Falls — July 12, by W. Lincoln, aud. Otter Tail Co., improving County Job 28-01, State Aid Rd. 24, approximately 148,338 cu.yd. earth, 11,117 cu.yd. loose and 2,159 cu.yd. solid rock excav., 179,473 cu.yd. overhaul, 725 cu.yd. 15 in. portable culverts, etc. $45,000. O. Skramstead, highway comr.

Minn., St. Paul—July 5, by A. E. Eggert, city purch agt., paving 1 mi. Mt. Curve Blvd. $60,000. G. M. Shepard, city engr. Noted Jan. 13.

Minn., St. Paul—July 11, by G. J. Ries, aud. Ramsey Co., grading, one 35 ft. span concrete deck girder bridge and graveling County Project 27-15, Hodgson Rd. extension, Anoka Co. $25,000. Former bids rejected. P. N. Coates, Guardian Life Bldg., engr. Noted May 19.

Mo., St. Louis — July 19, by Bd. Pub. Serv., 208 City Hall, grading and rein.-con. paving, etc. 19,350 sq.yd. Goodfellow Ave. (three sections) $95,720; warrenite bitulithic paving, etc. approximately 20,000 sq.yd. Kingshighway Southwest, $122,000, and 2,615 sq.yd. Itaska St. $17,000; amiesite paving, etc. 710 sq.yd. 38th St., $4,960; also grading, concrete paving, etc. alleys in City Blocks 2573 and 5395, $7,920. W. W. Horner, 300 City Hall, engr.

Tex., Mt. Pleasant — July 7, by J. R. Hart, city secy., rock asphalt on concrete, rein.-con. or brick on gravel surfacing, etc., 7,000 sq.yd. North 1st St. $25,000. W. A. Burton, Mt. Pleasant, engr.

Wash., Ellensburg — July 7, by Comrs. Kittitas Co., improving 3.5 mi. Permanent Highway 2-E, 9,500 cu.yd. excav. and 6,300 cu.yd. crushed graveling 852 ft. 12 and 18 in. concrete pipe. W. T. Bowman, Ellensburg, engr.

Ore., Molalla—July 6, by Clackamas Co., Court House, Oregon City, 7 in. concrete paving etc. approximately 5,500 sq.yd. Market Rd., point 1 mi. south of here. R. W. Wright, comr.

Ore., Roseburg—July 7, by Comrs. Douglas Co., grading 4.6 mi. Loon Lake Market Rd. 3, 16 ft. To exceed $25,000. F. C. Frear, Court House, engr.

California—July 11, by State Hy. Comn., Sacramento, grading and crushed gravel or stone surfacing 2.3 mi. roadway between Stockton and Cherokee Station, San Joaquin Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Berkeley—E. M. Hann, city clk., taking bids improving Solano Ave. To exceed $100,000. A. J. Eddy, city engr.

Calif., Healdsburg—Taking bids 6 in. concrete paving, etc. Johnson, Piper, and 1st Sts., etc. To exceed $25,000. J. B. Piatt, Santa Rosa, engr. Noted Apr. 24.

Calif., Los Angeles — July 11, by Bd. Supervs. Los Angles Co., 2 in. Durite on 4 in. asphaltic concrete paving, etc., 575,971 sq.ft. Snowden and Esperanza Rds., Impvt. Dist. 289. G. W. Jones, Hall of Records, engr. Noted June 2.

Calif., Marysville—July 7, by W. Strief, clk. Yuba Co., 5- to 7-in. concrete or 4 in. asphaltic concrete paving, etc. 6 mi. Feather River Blvd.; also 2½ in. Warrenite or asphalt surfacing 4.5 mi. Hammond Rd. J. R. Meek, Marysville, co. surv. Noted May 5.

Calif., Richmond—A. C. Faris, city clk., taking bids grading, curbing, guttering, paving, etc. Rheem and Dunn Aves., 13th, 15th and 17th Sts., etc. To exceed $25,000. E. A. Hoffman, city engr.

Calif., San Carlos—Taking bids walks and 4 in. rock macadam paving 690,000 sq.ft. Belvedere and Eaton Aves., etc. G. A. Kneese, Courthouse, Redwood City, engr.

Calif., San Diego—July 11, by Common Council, grading and 5 in. concrete paving, etc., 198,288 sq.ft. Narragansett Ave. F. M. Lockwood, city engr. Noted June 9.

Ont., Dresden—July 4, by J. T. Bridgewater, town clk., concrete curbing, guttering and concrete paving 5,500 sq.yd. various streets. $25,000. W. G. McGeorge, Chatham, engr.

Constr. News page 419a

Streets and Roads (Continued)

Ont., Grand Valley—July 6, by W. W. Christie, engr., Court House, Orangeville, grading, curbing, guttering and concrete or asphaltic concrete paving 3,800 sq.yd. Main St. $25,000.

Ont., Owen Sound—July 2, by R. C. McKnight, engr., City Hall, concrete or asphalt on concrete paving 16,000 sq.yd. various streets, for City. $75,000.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord **(e.e. means engrs. est.)** 3 in. on 6 in. gravel paving 0.871 mi. Gorham Hill Rd., in Randolph, 21 ft., to W. H. Hinman, Medway, Mass., $15,000 e.e. $25,000, and 1.261 mi. Contoocook Valley Rd., in Hopkinton, 21 ft., also 6 in. rein.-con. on 8 in. gravel surfacing 18,644 sq.yd. South Side Rd., incl. 1 span 24 ft. rein.-con. deck girder bridge in Dublin, to A. D. Bridges Sons, Inc., Hazardville, Conn., $25,583 and $75,299 respectively e.e. $49,000 and $83,000 respectively. Grand total $115,882. Noted June 9.

Massachusetts—Dept. Pub. Wks., Boston, bituminous surface treatment on gravel paving 6,300 ft. highway in Princton, to A. D. Pasquale, Milford $22,905, and 7,400 ft. in Ipswich, to J. E. Watkins Co., Amesbury $12,194; bituminous macadam paving 3,600 ft .in Rehoboth, to Iafolla & Shields, 15 Noyes Pl., Boston $17,615, 2,383 ft. in Somerset, to Hudson Constr. Co., Providence, R. I. $23,157, 7,596 ft. in Wrentham, to Perini & Ampollini, Wrentham $45,393, 8,200 ft. in A. Pallatto, Dracut $31,385, and 10,154 ft. in Fitchburg and Lunenburg, to Fitchburg Constr. Co., Fitchburg, $102,-483. Grand total $255,132. Noted June 2.

Mass., Brookline (br. Boston)—City will pave Longwood Ave., by day labor. $25,-000. Private plans. Noted June 16.

Mass., West Roxbury (br. Boston)—Dept. Pub. Wks., Boston, bituminous macadam paving various streets in Wards 7, 11, 20 and 22, here, to A. DeStefano, 288 Summer St., Boston, $29,556.

Conn., Bristol—Curbing, guttering and 4,000 sq.ft. concrete walks, etc. on Muzzy St., to C. Vacca, Terry Rd. Noted June 2.

New York—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, grading, etc. Hutchinson River Parkway from New Rochelle Rd., to New York, Westchester & Boston R.R. in town of Eastchester, to Smith Bros. Contg. Co., 5th Ave., Pelham, $277,290. Noted May 19.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sidewalks on Lenox Ave., to Valatia Constr. Co., 15 East 40th St., $3,633; granite block repaving Washington St., also widening and granite block repaving Watts St., to Regan Towers Co., 124 West 121st St., $124,428 and $69,-044 respectively. Grand total $197,105. Noted June 16.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Willowbrook Rd., to J. E. Donovan Paving Co., 2205 Richmond Terrace, Port Richmond, $19,029; curbing Forest Ave., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $2,638. Noted June 9.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, grading and petroleum asphalt paving Beech and Water Sts., also South Townsend St. and Oakland Ave., to G. D. Dickinson, Union Bldg., $42,570 and $77,-163 respectively; vitr. brick paving along railroad tracks Oakland Ave. and South Townsend St., to Dale Constr. Co., 1066 North Geddes St., $45,590. Grand total $165,323. Noted May 19.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, petroleum asphalt repaving 14,-680 sq.yd. James St., to G. B. Dickinson, Union Bldg., $91,010; widening and asphalt repaving 500 sq.yd. Irving Ave., to Rago Bros., Union Bldg., $12,126; and grading 7th North St., to Mondo Constr. Co., $2,060. Grand total $105,196. Noted June 9.

New Jersey—State Hy. Dept., Trenton, grading and rein.-con. paving 10,628 sq.yd. Route 18, Sect. 6, Lemoine Avenue extension, Bergen Co., to J. J. McGarry, Edgewater, $65,097. Noted June 2.

New Jersey—State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving Yellow Frame-Blairstown Rd., Route 3, Warren Co., to Korp & Korp, Phillipsburg, $281,950; and Hamburg-Beaver Lake Rd., Sussex Co., to Salmon Bros., Main St., Netcong, $403,908. Noted May 26.

N. J., Audubon (br. Camden)—Boro Council, sheet ashalt paving 1½ mi. 17 streets, to Union Paving Co., 123 South 21st St., Phila., Pa., $64,083. Noted May 5.

N. J., Roselle Park (mail Roselle)—Mayor and City Council, sheet asphalt paving Colfax Ave. and Filbert St., to Stryker & Stryker, Red Bank, $86,948.

Constr. News page 429

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to T. L. Flanagan, 531 East Girard St., grading Lawrence St. $598, to Dewees Bros., 7200 Shelbourne St., Rasolie St. $1,234, and to V. Monaghan, Water St. and Clarkson Ave., Tyson St. $14,811; to Eastern Asphalt Co., Penn Bldg., asphalt paving (assessment work) Alcott St. $4,298, Euclid Ave. $7,644, Morse, 52nd and 53rd Sts. $13,434, to Municipal Constr. Co., Washington Sq. Bldg., Anchor, Carver and Rosalie Sts. $11,467, and asphalt repaving Emery St. $3,419; to Union Paving Co., 123 South 21st St., asphalt paving (assessment work) Harley St. $5,927, Sansom St. $5,162, Gurney and Indiana Sts. $52,323, improving Cottman Ave. $33,487, and asphaltic paving mixtures $16,050; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving (assessment work) Large St. $5,951, and Pearce St. $6,566, to Barber Asphalt Co., 239 North 30th St., St. Bernard St. $3,446, Theodore St. $3,732, 72nd St. $3,469, Poplar St. $23,-878, and 24th St. $8,449; to Mazzola & Marano, Inc., 739 South 7th St., redressed granite block repaving Berks St. $2,315, to Acchione Contg. Co., 1607 McKean St., Race St. $3,399; to Mundy Paving & Constr. Co., 226 South Warnock St., repairing bridge at 17th and Indiana Sts. $4,940; to J. Meehan & Son, 916 West Dakota St., railroad siding at asphalt plant, 51st St. and Grays Ave., $5,600; and to Atlantic Refining Co., 260 South Broad St., block filler $2,880. Grand total $244,479. Noted June 9.

Delaware—State Hy. Dept., Dover, concrete widening 13,625 cu.yd. roadway, New Castle Co., to W. Eisenberg, Smith-Austermuhl Bldg., Camden, N. J., $198,552; concrete paving, etc. 8,575 cu.yd. road from Midway to Angola, Sussex Co., to Old Line Constr. Co., Chestertown, Md., $139,980; also constructing approaches to Market St., bridge, New Castle Co., to D. E. O'Connell & Son, Ridley Park, Pa., $34,318. Grand total $372,850. May 12 and 26.

Maryland—State Roads Comn., Baltimore, to H. H. Hershberger, 3723 Reisterstown Rd., Baltimore, concrete paving 1 mi. Contr. C1-68, Carroll Co. $21,690, and to Layfield & Waller Paving Co., Salisbury, 1 mi. Contr. W1-41, Wicomico Co. $16,964; to Amer. Paving & Contg. Co., Montebello Ave., Baltimore, sheet asphalt paving 0.5 mi. Contr. BC-68 $57,658, to Thomas P. Murray, Towson, concrete shoulders on 2.48 mi. Contr. B-1-3 $16,808, both Baltimore Co., also to E. R. P. Smith, Hyattsville, 1.31 mi. on Contr. P-3-B, Prince George Co., $9,626; to Thomas, Bennett & Hunter, Westminster, concrete shoulders and resurfacing 5.83 mi. Sm-4-A, St. Marys Co. $103 146, to Hannemann-Burroughs Co., Salisbury 5.25 mi. Contr. Wo5-C, Worcester and Wicomico Counties $6,975, concrete paving 0.8 mi. Contr. Wo-48 $13,466, and 1 mi. Contr. WO-36, $18,352, both Worcester Co. Grand total $264,685. Noted May 19 and 26.

Maryland—State Roads Comn., Baltimore concrete paving 1.4 mi. Contr. H-55,, Harford Co., to J. J. Bresnan, 300 East Woodland Ave., Baltimore, $36,351; and concrete shoulders on 2 mi. Contr. C1-1-A, Carroll Co., to J. S. Teeter, Taneytown, $14,200. Noted May 5 and 12.

Maryland—Dept. Pub. Wks., State Roads Comn., Baltimore, sheet asphalt paving 0.7 mi. Contr. BC-69, Baltimore Co., to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks, Baltimore, $110,-841. Noted June 2.

Va., Richmond—Director Pub. Wks., asphalt paving portions Chamberlain Ave. and Petersburg Turnpike, to McGuire & Rolfe, 1009 Brook Rd., $50,572 and $40,045 respectively. Noted June 2.

West Virginia—State Hy Comn., Charleston, bituminous macadam paving 3 mi. Sutton-Flatwoods Rd., Project 1044, to C. V. Rector, Spencer $96,094, 1 mi. Berkley Springs-Hancock Rd., Project 3192, Morgan Co., to H. W. Taylor, Romney $20,210, 6 mi. Mullins-Amigo Rd., Project 110-c and 3062, Wyoming Co., to Wright & Hayes, Princeton $190,283, and 6.25 mi. Ronceverte-Second Creek Rd., to Buttershill, Sadler & Clay, Virgilina, Va. $128,116; concrete paving 5 mi. Pocataligo-Sissonville Rd., Project 3259, Kanawha Co., to Brown & Floyd, Charleston $165,532, 4.6 mi. Blaine-Elk Garden Rd., Project 1119, Mineral Co., to Monongahela Constr. Co., Fairmont $156,176, 5 mi. Kerens-Tucker Co. Rd., Project 3211-C, Randolph Co., to W. A. Wilson & Sons, St. Marys $146,904, 7 mi. Weston-Lynn Rd., Project 3278, Lewis Co., to O. E. Brecht, Titusville, Pa. $204,-147, 2.3 mi. Taylor Co. Line Rd., Project 3203-D, Preston Co., and 6.23 mi. Grafton-Preston Co. Line Rd., Project 3229, Taylor Co., to Hagedorn Constr. Co., Greensboro, N. C. $69,677 and $197,322 respectively; grading, etc., 4 mi. Strange Creek-Clay Co. line Rd., Project 3157-C, Braxton Co. to J. M. Cain & Co., Charleston $96,462, 5.5 mi. Otter-Braxton Co. line Rd., Project 3285, Clay Co., to R. L. Black & Co., Yawkey $100,918, 5 mi. Scherr-Mt. Storm Rd., Project 3215-B, Grant Co., to Cass & Otto, Wheeling $39,120, 4.5 mi. Dailey Bridge-Virginia State Line Rd., Project 3355, Jefferson Co. to H. W. Kaylor Hagerstown, Md $55,218, 7 mi. Renick Valley-Renick Rd., Project 3236, Greenbrier Co., to J. C. Cooper & Co., Charleston $66,165, 4.5 mi. Project 3213-C, Pendleton Co., to Polino Constr. Co., Keyser $55,834, and 3.5 mi. Webster Springs-Point Mountain Rd., Project 3384, Webster Co., to Mace Constr. Co., Webster Springs $73,582; reconstructing top of Wheeling Hill and completing Fulton Hill Rd., Project 2063, Ohio Co., to Consolidated Eng. Co., Wheeling $32,262, and 1 mi. National Rd., Project 2064, Ohio Co., to Hall & Mitchell, Keswick, Va. $66,506; furnishing material and stone slag or gravel surfacing 30.5 mi. Marrowbone-Echo Rd., Project 3061 and 30.5 mi. same Road, Project 3188, Wayne Co., to Huntington Gravel & Supply Co., Huntington $40,-690 and $28,095 respectively; gravel surfacing 30.5 mi. Marrowbone-Echo Rd., Project 3188, Wayne Co., to Acme Constr. Co., Parkersburg $22,679, and 30.5 mi. Marrowbone-Echo Rd., Project 3061, Wayne Co., to F. J. Duval, Huntington $32,654; stone base course surfacing 5.86 mi. Weston-Lynn Rd., Project 3278, Lewis Co., to Keeley Constr. Co., Clarksburg $78,260; placing guard rail on Princeton-Flat Top Mountain Rd., Project 44-A and B and 121, Mercer Co., to E. L. Wheelock Co., Dayton, O. $17,560. Grand total $2,180,416. Noted May 26.

Miss., Hattiesburg—Forrest Co., concrete paving, etc. 2 mi. Hardy St., to S. K. Jones Co., Cotton Exch. Bldg., Memphis, Tenn.

Ky., Fulton—Grading, curbing, guttering, 6 in. rein.-con. paving, etc. various streets, to Carey-Reed Co., Lexington, $86,490. Noted June 2.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, resurfacing, walks and sheet asphalt paving, etc. 18,565 sq.yd. Bowery St., to T. E. McShaffrey Constr. Co., 173 South Forge St., $81,820. Engrs. est. $109,800. Noted June 2.

O., Canton—Stark Co. **(e.e. means engrs. estimate)**, concrete paving, etc. 1.94 mi. New Baltimore-Limaville Rd., to Urban Bros., General Delivery, Massillon, $72,409 e.e. $75,000; brick paving, etc. 1.83 mi. Paris-Maximo Rd., to E. Vogt & Co., General Delivery, Massillon $61,518 e.e. $60,000, 2.88 mi. Greentown-Carrollton Rd., and 1.02 mi. Marchand-Aultman Rd., to Wise Bros. Co., 1126 11th St. N. W., $118,740 and $44,880 respectively, e.e. $120,000 and $50,-000 respectively, all 16 ft. wide. Grand total $297,547.

O., Cleveland—Cuyahoga Co., resurfacing, etc., Brainard, Aiken and Fowler Rds., to Hannan Constr. Co., 3231 West 11th St., $94,500.

O., Columbus—Franklin Co., to Fritz-Pyle Constr. Co., 400 North Grant Ave., grading and paving, etc. 0.988 mi. East Beachwood Blvd. Rd. $54,071, 0.988 mi. East Royal Forest Blvd. Rd. $52,516, and 0.988 mi. East Jeffrey Pl. Rd. $52,122, all in Clinton Twp. Grand total $158,709. Noted June 9.

O., Norwalk—Grading, curbing and asphalt paving, etc. ¾ mi. Maple St., Benedict and Ford Aves., 26 ft. to A. J. Baltes, Norwalk, $26,308.

O., Springfield—Improving 3rd St. from Limestone St. to Fountain Blvd., to R. J. Kavanaugh, Springfield, $27,230. Engrs. est. $25,000.

O., Wooster—Wayne Co., slag paving, etc. 4 mi. Marshallville Rd. from Marshallville to Stark Co. line, 16 ft., to Barnhart & Moller, Gen. Del., Canton, $28,541. Engrs. est. $30,000.

O., Youngstown—Mahoning Co., asphalt paving, etc. Midlothian St., to M. Grein, 427 Werner St., Youngstown, $40,987, engrs. est. $50,000; also Bridge St., to Grady & Turner, Youngstown, $25,413, engrs. est. $25,000.

Ind., Anderson—Widening ¾ mi. Jackson St., 10 ft., to Lyst & McVaugh, Anderson, $26,000.

Ind., Columbia City—Whitley Co. **(e.e. means engrs. est.)** paving 16,063 ft. Bauer and Blaugh Rds., and 13,420 ft. Lickey Rd., to Gallivan, c/o R. F. Raber, aud., Columbia City, $19,225 and $11,250 respectively, $26,276 and $12,250 respectively; 5,347 ft. Gilligan Rd. 2, and 13,603 ft. Frye Rd., to M. Crowe, Markle, $11,245 and $11,227 respectively, $12,017 and $11,227 respectively; 5,262 ft. Gilligan Rd. 1, to North & Shaw, c/o R. F. Raber, aud., Columbia City, $8,247 $9,097, 7,073 ft. Van Meter Rd., to Tri-Lake Constr. Co., Columbia City, $6,600 $7,637; and 14,747 ft. Cowlter Rd., to Harshman & Jarrell, Columbus City,

Streets and Roads (Continued)

$13,910, $17,856. Grand total $81,734. Noted May 19.

Ind., Fowler—Benton Co., constructing Messner and Broe Rds., to I. G. Johnson, Fowler, $52,355. Noted Apr. 28.

Michigan—H. C. Fleming, resident engr., Grand Rapids, concrete paving 5.981 mi. T. L. 43-13, M934-17, Contr. 1, Ionia Co., 20 ft., to State Constr. Div., (by day labor), M. Joigler, supt., Capitol Natl. Bank Bldg., Lansing. Noted June 2.

Michigan—W. W. Lavers, resident engr., Plymouth, concrete paving 5.735 mi. A. D. 463, Wayne and Monroe Counties, 20 ft., to Hillding Constr. Co., Scofield, for State Hy. Dept., Lansing. $218,875. Noted May 26.

Mich., Port Huron—Comrs. St. Clair Co., graveling 4.504 mi. A. D. 93, to Peacock Constr. Co., Yale, $46,267, and 3.056 mi. A. D. 94, to Deckerville Constr. Co., Deckerville, $42,272, both 16 ft.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 99, Sect. 102, Hancock Co., to P. Simmons, Quincy $2,135, Route 9, Sect. 8, Tazewell Co., to Jansen & Schaefer, Pekin $100,798, Route 70, Sects. 108-W and 108-W-1, Ogle Co., to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., $8,539 and $2,560 respectively; grading Route 121, Sect. 105-A, Tazewell Co., to P. O'Leary & Sons, Terre Haute, Ind., $91,426; bridge on Route 47, Sect. 118-B, to O. Stewart, Urbana, $13,585. Grand total $219,043. Noted May 19 and June 16.

Ill., Belleville—St. Clair Co. tentatively awarded contract grading, concrete paving, etc. 80,092 sq.yd., Route 46, Sects. 47 14d, near Marissa, to Moore Bros. Constr. Co., 2000 St. Clair St., East St. Louis, $138,939.

Ill., Chicago—City, Room 207, City Hall, grading and 7 in. concrete paving portion 1 alley, to R. A. Anderson Co., 625 North Kedzie Ave., and portion 1 alley to Paramount Constr. Co., 107 North Clark St.; removing present paving and curbing, also grading, asphalt and granite block on concrete resurfacing portions South Ashland Ave., West 70th and 71st Sts., to R. F. Conway Co., 844 Rush St.; grading, curbing, guttering and 8 in. concrete paving portions North Austin Ave., to J. A. Sackley Co., 4608 Belmont Ave., portions South Elizabeth St., to Central Paving Co., 179 West Washington St., portion West 61st St., to P. J. O'Brien & Co., North Cicero Ave., portion South Francisco Ave., to J. Dillon & Co., 2953 South Halsted St., portion South Racine Ave., South Elizabeth and South 90th Sts., to Ready & Callaghan Coal Co., 133 West Washington St., portion Berwin, Belmoral, Catalpa, Langlade and Lawler Aves., to Marquette Constr. Co., 4726 North Winchester Ave.; grading, curbing, guttering and asphalt on 6 in. concrete paving portions Bloomingdale, North Hermitage, Cornelia, Newport and North Major Aves., to White Paving Co., 1735 Fullerton St., portion West 79th Pl., West 80th, 81st and 82nd Sts., Phillips, South Maplewood, South Campbell and South Artesian Aves., to Amer. Asphalt Paving Co., 133 West Washington St.; 6, 10, 12, 14 and 16 ft. concrete sidewalks on portions Deming Pl., West Ohio St., Belmont Blue Island, 5th, Irving Park, Lawrence and North Lawndale Aves., to C. Schroeder, 4113 North Ashland Ave., on portions West Division and East 31st Sts., South Kedzie and North Laurel Aves., to G. Kehl Sons, 1225 North Maplewood Ave., portion South Bishop St., to H. Johnson Co., 430 West 11th St., on portion Margate Terrace and West 26th St., to Banner Constr. Co., on East 9th, West 74th, West 25th and East 21st Sts., to Superior Constr. Co., 133 West Washington St., also on portion West Roosevelt Rd., East 31st and Thropp Sts., to Capitol Cement Constr. Co.

Ill., Niles Center—Concrete paving East Prairie Rd. to Arcole Constr. Co., Evanston, $15,383. Engrs. est. $16,800. Noted June 2.

Wisconsin—State Hy. Comn., Div. Office 4, Wisconsin Rapids, concrete paving, etc. 49,018 sq.yd. State Trunk Highway 49, State Project 4390, Waushara Co., to Vogt-Mengel Co., Wisconsin Rapids, $132,492; also improving Friendship-Wisconsin Rapids Rd., Wood and Adams Counties, 174,856 gal. asphaltic road oil, etc. to M. S. Deppe, Baraboo, $40,618. Noted May 26.

Wisconsin—State Hy. Comn., Madison, concrete paving, etc. 3.2 mi. Federal Aid Project 367-B, Manitowoc Co., 30 ft., to J. R. Griffith Co., Racine, $131,450.

Wisconsin—State Hy. Comn., F. M. Sergeant, div. engr., Div. Office, Rhinelander, graveling, etc. 27,838 sq.yd. Florence-Iron Mountain Rd., Federal Aid Project 426-A, State Project 7703, Florence Co., to A. J. Beka & Co., Green Bay, $41,231.

Wisconsin—State Hy. Comn., Div. Office 6, 213 South Barstow St., Eau Claire, grading, graveling, etc., 4,013 cu.yd. Neillsville-Fairchild Rd., Clark Co., to Western Gravel Co., Minneapolis, Minn., $31,101. Noted June 2.

Wis., Wisconsin Rapids—Wood Co., concrete paving, etc. 10,191 sq.yd. Blenker-Sherry Rd., State Project 4267, and 5,675 sq.yd. Hewitt Rd., State Project 4268, to Bossert Coal Co., Wisconsin Rapids, $29,256 and $15,246 respectively. Noted May 12.

Ia., Algona—Kossuth Co., to Moe & Nelson, Belmond, improving Projects S-147 and 84, 14,437 cu.yd. gravel 1 mi. haul at $0.35, $0.37 and $0.39 per cu.yd., 99,980 units ½ mi. haul $0.08 and $0.085, 5,800 cu.yd. stripping $0.18; to M. O. Weaver, Iowa Falls, 11,600 units ½ mi. haul at $0.59, and 4,800 cu.yd. stripping, $4,800; to Sampson Bros. Constr. Co., Algona, 13,000 cu.yd. gravel 1 mi. haul $0.27 and $0.36, 48,060 units ½ mi. haul $0.07, and 5,500 cu.yd. stripping $0.20 and $0.22. Noted June 2.

Ia., Aurelia—Improving 50 blocks various streets, grading, to Scothorn & Hartsell, Early, $5,460; and graveling, to Nels Kaiser, Pocahantas, $12,870. Noted Apr. 28.

Ia., Cedar Rapids—City Clerk, curbing, guttering, etc. 7 in. rein.-con. paving, 15,980 sq.yd. various streets and alleys, to Hahn Constr. Co., 1105-12th Ave., $42,056; 7 in. rein.-con. paving 6,414 sq.yd. to Ford Paving Co., Merchants Natl. Bldg., $6,414, brick on 5 in. concrete paving 1,207 sq.yd. to P. P. Smith, 1600 Washington St., $19,642. Grand total $68,112. Noted May 26.

Ia., Des Moines—Polk Co., to F. G. Bennethson, Bayard, improving county road system, 15,500 cu.yd. gravel 1 mi. haul at $0.12 to $0.28 per cu.yd., 113,000 units ½ mi. haul at $0.06 to $0.07, and 10,000 cu.yd. stripping $0.20; also to H. R. Mandlin, Nevada, 3,500 cu.yd., gravel on same road $1.80. Noted May 19.

Ia., Earlham—Rein.-con. paving 15,800 sq.yd. various streets, to Bemis & Schlick, 503 Hippee St., Des Moines, at $2.14 per sq.yd. Noted June 2.

Ia., Ft. Dodge—Webster Co., to D. Paul, Ft. Dodge, improving various secondary districts, also 21,500 cu.yd. excav. 1 mi. haul at $0.26 and $0.30 per cu.yd., 220,750 units ½ mi. haul $0.065 and $0.07.

Ia., Nevada—Story Co., improving Dists. 43 and 48, to H. R. Maudlin, Nevada, 9,000 cu.yd. gravel 1 mi. haul at $0.24 and $0.25 per cu.yd. 113,500 units ½ mi. haul $0.06, and 1,800 cu.yd. stripping $0.15. Noted May 19.

Ia., Newton—Jasper Co., to J. H. Miller & Son, Kellogg, improving Primary Road Project 99, 271,484 cu.yd. excav. at $0.37 per cu.yd., 200 cu.yd. loose rock $0.75, and 200 cu.yd. solid rock $2, 1,074 ft. culvert labor $0.35.

Ia., Sioux City—Woodbury Co., grading 81,751 cu.yd. roads, to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., at $0.19 per cu.yd. Noted May 26.

Ia., Storm Lake—Buena Vista Co., to A. J. Fleckenstein, Cedar Rapids, improving Dists. S-77 and S-78, and county road system, 20,875 cu.yd. gravel 1 mi. haul at $0.27 and $0.29 per cu.yd., 175,300 units ½ mi. haul $0.075 and $0.08, also 7,850 cu.yd. stripping $0.20.

Minn., St. Cloud—Grading and asphaltic concrete paving, etc. 30,952 sq.yd. various streets, to C. R. McCann & Co., 1222 Plymouth Bldg., Minneapolis, approximately $100,000. Noted May 19.

Kan., Gove City—Gove Co., sand surfacing 13.901 mi. Federal Aid Project 382-A, and 23.111 mi. Sect. B same project, to Schultz Constr. Co., Union Natl. Bank Bldg., Wichita, Kan., $15,469 and $35,806 respectively. Noted May 26.

Kan., Kansas City—Wyandotte Co., 6 in. concrete paving, etc., 46,530 sq.yd. Federal Aid Project 309-D, to Halpin-Boyle Constr. Co., Swope Park, Kansas City, Mo., $135,132. Noted June 2.

Kan., Leavenworth — Leavenworth Co., grading, etc. 1.067 mi. Federal Aid Project 268-I, 29½ ft., to C. D. Dolman, 824 North Quincy St., Topeka, $28,093.

Neb., David City — For 3 in. graveling 40,000 sq.yd. streets in Paving Dist. 4, to David City Concrete Co., David City, $13,000. Noted June 9.

Neb., Lincoln — T. H. Berg, city clk., sheet asphalt paving, etc. N St. between 11th and 17th Sts., to Abel Constr. Co., Terminal Bldg., $25,985.

Neb., Scottsbluff—Grading, sheet asphalt paving, etc. 10,540 yd. streets in Dist. 9, to Sample Constr. Co., Scottsbluff, $30,309; and asphaltic concrete paving 21,500 yd. streets in Dist. 11, to A. H. Reed Const. Co., Scottsbluff $60,296. Noted June 2.

North Dakota—State Hy. Comn., Bismarck (**F.A.P. means Federal Aid Project**), to W. Fahey, Lakota, improving 1.1 mi. F.A.P. 19-E $6,176, and graveling 1,125 cu.yd. F.A.P. 224-B $7,061, both Ramsey Co.; to Hohman Webster & Snow, Turtle Lake, improving 10 mi. F.A.P. 23, LaMoure Co. $14,801, and 1.6 mi F.A.P. 287-C, Richland Co. $45,323, to Kingsley Bros., Matt, F.A.P. 39-D, Grant Co. $7,959, to Schultz Bros. Bowbells, 9 mi. F.A.P. 270-C, Ward Co. $25,436, 4.1 mi. F.A.P. 274-C, McHenry Co. $9,250, and 15.1 mi. F.A.P. 312-A, McKenzie Co. $46,430, to Campbell & Campbell, Grace City, 7.6 mi. F.A.P. 296-A, Eddy Co. $15,442, to Kemper & Huston, Minot, 3.95 mi. F.A.P. 303-B, Burke Co. $7,820, and 1.9 mi. F.A.P. 303-C, Burke and Ward Counties $3,995; to Theil & Wolf, Valley City, graveling 14,197 cu.yd. F.A.P. 224-B, Ramsey Co. $14,972, to Pickus Constr. Co., Sioux City, Ia., 9,657 cu.yd. F.A.P. 230-A, Grand Forks Co., $7,134, and 2,364 cu.yd. F.A.P. 278-A, Grand Forks and Traill Counties $3,073, to M. D. Butler, Grand Forks, 12,638 cu.yd. F.A.P. 245, Walsh Co. $29,519, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., 8,387 cu.yd. F.A.P. 266-A, Dunn Co. $7,677, and 9,592 cu.yd. F.A.P. 277-A, Mountrain Co. $9,503, and to A. Holderson, Cheyenne, Wyo., 10,295 cu.yd. F.A.P. 290-A, Benson Co. $8,692; to J. J. Rue & Sons, Bismarck, culverts on 9 mi. F.A.P. 270-C, Ward Co., $16,588, and improving 15.1 mi. F.A.P. 312-A, McKenzie Co. $13,150; also to T. M. Swingen, Cooperstown, culverts (excluding pipe culvert headwall) on 15.4 mi. F.A.P. 286-A, Richland Co., $5,309. Grand total $365,385. Counties furnish gravel for above projects.

N. D., Fargo — Warrenite bitulithic paving, etc. 17,000 yd. 6th, 7th and 8th Sts., Paving Dist. 187-27, to S. Birch & Sons, 211 Front St., $71,190.

Wyoming—State Hy. Comn., Cheyenne, grading and crushed graveling 16.9 mi. Federal Aid Project 186-A, Lincoln Co., to Tobin & Maloney, Madison, S. D., $44,331; grading and surfacing 11.75 mi. Federal Aid Project 184-A, Lincoln Co., to C. A. Robinson, Twin Falls, Idaho, $37,310; and grading, bridging, etc., 5.87 mi. Federal Aid Project 150-C, Goshen Co., to Kenny & Son, Wheatland, $38,391. Grand total $120,032.

Montana — State Hy. Comn., Helena (**F. A. P. means Federal Aid Project**), improving 8.312 mi. F. A. P. 58-C, Unit 1, Lincoln Co., and 7.13 mi. F. A. P. 191-B, Lake Co., to S. Orino, 508 Realty Bldg., Spokane, Wash., $108,835 and $69,862 respectively; crushed graveling 12,000 cu.yd. F. A. P. 64, Cascade Co., and 4,833 cu.yd. F. A. P. 155-A, Unit 1, Valley Co., to T. Staunton, Great Falls, $19,800 and $47,717 respectively, also 8,676 cu.yd. F. A. P. 241-A, Beaverhead Co., to Pioneer Constr. Co., Bozeman, $79,590. Grand total $325,804.

Mo., Clayton—St. Louis Co., to Vinita Constr. Co., 7210 St. Andrew Rd., Vinita Park (St. Louis P. O.), 9 in. waterbound macadam paving, etc. 2,800 cu.yd. Northridge Dr. $4,909, 2,730 cu.yd. West Dr. $6,555, and 2,800 cu.yd. Garden Dr. $6,789, to E. Steffen, 4760 Seibert Ave., St. Louis, 120 cu.yd. John St. $2,467 and to W. and F. Ruprecht, 8011 South Bway., St. Louis, 1,680 cu.yd. Hancock Ave. $4,332; to J. McMahon, Buder Bldg., St. Louis, grading and concrete paving, etc. Ridge St. between Merton St. and city limits, $16,882; and to J. L. Moss, 1908 North and South Rd., St. Louis, Telford macadam paving, etc. Manola Ave. between Grove and Fairmount St., $4,234. Grand total $46,168. Noted May 5.

Mo., St. Joseph — For 6 in. concrete paving 7,432 sq.yd. Alabama Ave. between Lake St. and Carnegie Ave., and 803 sq.yd. Alabama Ave. between Carnegie Ave. and alley west of Meade St., to Judson Eng. & Constr. Co., 1801 Faraon St., $20,515 and $2,409 respectively; also concrete and asphaltic concrete paving 1,349 sq.yd. Alabama Ave. between Chicago Rock Island & Pacific R.R. tracks and Lake Ave., to Metropolitan Paving Co., Donnell Court, $6,626. Grand total $29,550.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Webb Boone Paving Co., 5103 Fyler Ave., amiesite paving 1,150 sq.yd. De Tony St. $8,305, 3,355 sq.yd. Henry Ave. $27,111, and 5,760 sq.yd. Neosho St. $35,706; to C. A. Moreno, Syndicate Trust Bldg., asphaltic concrete paving 2,250 sq.yd. Kansas Ave. $15,069, to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., 3485 sq.yd. Minnesota St. $23,716, and to Herman Constr. Co., Title Guaranty Bldg., 5,370 sq.yd. Ray Ave. $23,854; to M. L. Flinn Paving Co., 728 South Theresa Ave., rein.-con. paving 1,320 sq.yd. Laura Ave., $6,143; to Central Paving & Constr. Co., 6161 Maple Ave., warrenite bitulithic paving 4,470 sq.yd. Louisiana Ave. $20,611, 2,145 sq.yd. Geyer Ave. $10,184, and 860 sq.yd. Prather Ave. $7,549; to Bridges Asphalt Paving Co., 3900 Chouteau Ave., asphalt

Constr. News page 421

Streets and Roads (Continued)

paving 830 sq.yd. 21st St. $6,589; and to F. A. Stiers, Magazine St. at Garrison Ave., recut granite paving 11,460 sq.yd. Vandeventer Ave., $86,070. Grand total $270,907. Noted May 19.

Tex., Alice—Jim Wells Co., grading, etc. 9.7 mi. Highway 12-A, to W. L. Pearson Co., Corpus Christi, $37,680. Noted June 2.

Tex., Baird—Curbing, guttering and paving various streets, to McClung Constr. Co., Fort Worth Natl. Bank Bldg., Ft. Worth, $35,696. Noted June 9.

Tex., Ft. Worth—Paving 7 streets, Oak Grove St. Louis and Rand Aves., to West Texas Constr. Co., Cotton Exch. Bldg., $69,734; Willing Ave. and Townsend Dr., to Standard Paving Co., Majestic Bldg., $44,418; Allen Ave. and Ave. B, to Colglazier, Hoff & Everett, $89,183.

Tex., La Grange—Fayette Co., grading etc. 8.2 mi. Highway 73, to H. Kyle, Hutto, and J. F. Peterson, Bastrop, $32,241.

Tex., Weatherford—Parker Co., grading, etc. 5.4 mi. Highway 10, to Armstrong & Armstrong, 502 Houston Bldg., San Antonio, approximately $25,000. Noted June 13.

Tex., Wharton—Wharton Co., grading, etc. 9.6 mi. road radiating from here, to D. Word, Itasca, $34,785; also concrete approach and concrete and steel bridge on Highway 60, near here, to S. E. Vann, Trinity, approximately $25,000.

Okla., Blackwell—Grading and concrete paving 8,060 sq.yd. and vertical brick paving 12,000 sq.yd. Dist. 39, to O. T. Tyler, Blackwell, $103,149. Engrs. est. $110,000. Noted June 2.

Okla., Tulsa—Tulsa Co. **(e.e. means engineers estimate)**, grading, etc. 6 mi. 41st Street Rd., to E. G. Fike & Co., Nebraska Bldg., $26,227 e.e. $28,000, 3.5 mi. Red Fork and Carbondale Rds., to R. Tanner, Nebraska Bldg., $25,012 e.e. $30,000, 3 mi. Mohawk Park Rd., to Standard Paving Co., 1742 East 6th St., $67,556 e.e. $70,000, and 2 l. Bixly Rd., to Highway Constr. Co., 1st Natl. Bank Bldg., Oklahoma City, $49,950 e.e. $50,000; also sheet asphalt paving 19,775 sq.yd. Dist. 892, to H. L. Cannady Co., 1122 South Lewis St., $56,349 e.e. $60,000. Grand total $225,094.

Okla., Wewoka—For 6 in. concrete paving 60,400 sq.yd. Dist. 9, to Hanson-Pearce Constr. Co., Oklahoma City, $127,419. Noted May 26.

Wash., Chehalis—Lewis Co.; grading and macadamizing with 8 in. crushed gravel surfacing, etc., 2.75 mi. Permanent highway, 24 ft. to Hendricks & Olson, Chehalis, $29,484. Noted May 26.

Wash., Seattle—Bd. Pub. Wks., grading and 8 in. concrete paving, etc. 28,050 sq.yd. Broad St. et al, to Interstate Constr. Co., 1713 22nd St. S., $162,985.

Calif., Beverly Hills—Grading, curbing, walks and 5 in. asphaltic concrete paving, etc. Beverly Blvd. between Pacific Electric Ry. tracks and east city limits, to Los Angeles Paving Co., 3200 East Vernon Ave., Los Angeles, $40,258. Noted May 5.

Calif., Burbank—F. S. Webster, city clk., to Gibbons & Reed Co., 221 East San Fernando Rd., improving Rowland Ave., etc., 147,955 sq.ft. grading $0.245 per sq.ft., 119,715 sq.ft. 5 in. bituminous concrete paving, etc. $0.17, etc. Noted May 19.

Calif., Daly City—For 1½ in. asphalt on 4 in. concrete paving, etc., Niantic Ave. and Woodrow St., to Raisch Impvt. Co., 46 Kearny St., San Francisco, $25,785.

Calif., El Cerrito—Grading and 2 in. Warrenite bithulithic on 4 in. asphaltic concrete paving, etc. Fairmount Ave., to Warren Constr. Co., Poplar and 28th Sts., Oakland $6,255. Noted June 9.

Calif., Eureka—Humboldt Co., Warrenite paving, etc. various roads in Supervisor Dists. 3 and 4, to Mercer-Fraser Co., Eureka, $52,332.

Calif., Hawthorne—Curbing, guttering and asphaltic concrete paving, etc. portions East Carolina, and Hazelton Aves., etc. to Oswald Bros., 366 East 58th St., Los Angeles, $35,676 and $64,980 respectively. Noted May 26.

Calif., Los Angeles—Concrete and asphaltic concrete paving, etc. 10th St. between Meyler and Averill Ave., to Griffith Co., Railway Bldg., $48,850; curbing and 8 in. concrete paving Mulholland St. between Osborne and Clybourne Aves., to Peck Co., 1120 Las Palmas St., $135,932; guttering and National surfacing Orlando Ave. between city limits and Melrose Ave., to Bryant, Braun & Austin, 6244 Washington St., $32,730; grading and concrete paving, etc. 106th St. between Figueroa and Vermont Aves., and Melrose Ave. between Larchmont Blvd. and Fairfax Ave., to P. J. Ahmadzich, Wilcox Bldg., $24,339 and $48,305 respectively. Grand total $290,156.

Calif., Merced—Merced Co., improving Stevinson-Hilmar Rd., to Valley Paving & Constr. Co., Visalia, $186,250.

Constr. News page 422

Calif., Oakland—G. Gross, clk. Alameda Co., Warrenite paving, etc. Telegraph Rd., to Jones & King, Hayward, $220,527. Noted May 26.

Calif., Oakland—Alameda Co., constructing Mission Bridge, rein.-con., to Gutleben Bros., 614 Mills Bldg., San Francisco, $127,918.

Calif., Ontario—Grading, curbing and 5 in. asphaltic concrete paving, etc. 9th St., to Griffith Co., Railway Bldg., Los Angeles, $28,500. Noted Apr. 28.

Ont., Ottawa—Repairing asphalt paving Wellington St., to O'Leary's Ltd., 18 Rideau St., $7,000; and relaying asphalt pavement on Connought Pl., to Standard Paving Co., Central Chambers, $24,203.

Ont., Toronto—Concrete paving lanes near Beatrice St. and west of Montrose Ave., to Grant Contg. Co., 47 Wellington St. E., $14,449; asphalt surfacing Jamieson Ave., to Godson Contg. Co., 203 Richmond St. W., $4,922, and Howard St., to city by day labor, $7,543. Grand total $26,914.

Ont., Toronto—East York Twp., asphalt on concrete paving Pope Ave., to Ontario Amiesite Co. Ltd., Lumsden Bldg., $14,327; Greenwood and Glebemount Aves., to Kilmer & Barber, 10 Adelaide St. E., $8,625 and $7,110 respectively. Grand total $30,062. Noted June 9.

B. C., Barnaby—Municipal Council, one course 7 in. concrete paving 23,600 sq.yd. Grandview Highway, to Dawson, Wade & Co., Bekins Bldg., Vancouver, $70,000. Noted May 26.

B. C., Vancouver — Concrete and asphalt paving 8th, Hawks and Morton Aves., to General Constr. Co. Ltd., 736 Granville St., $42,478, concrete paving various streets, to Armstrong, Morrison Paving Co., 543 Granville St., $16,970; asphalt paving various streets, to Columbia Bitulithic Co., Bekins Bldg. $21,193, and to Dawson Wade & Co., Bekins Bldg. $19,963; curbing and one course 7 in. concrete paving 9 blocks 12th Ave., also asphalt on macadam paving 3 blocks 11th Ave. and warrenite on 6 in. concrete paving 2 blocks 12th Ave., to Carter-Halls-Aldinger Co., Ltd., Bekins Bldg., $45,065 and $30,500 respectively. Grand total $176,169. Noted May 19.

Buildings—Commercial

Proposed Work

Me., Portland—HOTEL—Fink Bros., 235 Middle St., having preliminary plans prepared by C. S. Lane, 77 Roberts St., 12 story, brick and steel, High St. To exceed $150,000. Noted June 2.

Mass., Boston—CHILDREN'S—City, Institutions Dept., City Hall, W. S. Kinney, comr., having preliminary sketches made by J. H. Ritchie & Associates, 250 Stuart St., brick, at Long Island Hospital. $150,000.

Mass., Boston—HOSPITAL—City, Institutions Dept., City Hall, W. S. Kinney, comr., having preliminary sketches made by J. H. Ritchie & Associates, 250 Stuart St., brick addition to Long Island Hospital. $250,000.

Mass., Boston—OFFICERS QUARTERS, WARD, LAUNDRY, Etc.—City, Hospital Dept., J. P. Manning, having plans prepared by J. H. Ritchie & Associates, 250 Stuart St., 7 story and basement, irregular shaped, house officers quarters, $450,000; also having sketches made 8 story and basement, 40 x 140 ft. medical ward $600,000, 2 story and basement laundry and kitchen $250,000, and 6 story and basement pavillon $584,000, all foregoing brick and limestone, plain foundations, Harrison Ave.

Mass., Cambridge (Boston P. O.)—BANK—Cambridge Trust Co., W. Phippan, treas., Harvard Sq., having plans prepared by T. H. James Co., 3 Park St., Boston, altering and constructing 1 story and basement, rein.-con. and brick addition, plain foundation, Harvard Sq. $150,000.

Mass., Dorchester (br. Boston)—APARTMENT—B. E. Elfman, 301 Allston St., Brighton, having plans prepared 4 story and basement, brick and stone, plain foundation, Columbia Rd. and Geneva Ave., here. $225,000. Private plans.

Mass., Everett (br. Boston)—APARTMENT— Nason Constr. Co., Orchard St., Swampscott, having plans prepared 3 story and basement, brick and stone, plain foundation, Hancock St., here. $150,000. Private plans.

Mass., Quincy (br. Boston — APARTMENT—R. Guida, c/o R. M. Stowell, archt., 184 Boylston St., Boston, having plans prepared 3 story and basement, brick and stone, plain foundation, Fenno St., Wollaston Dist., here. To exceed $150,000

Mass., Quincy (Boston P. O.)—APARTMENT—Nason Constr. Co., Orchard St., Swampscott, plans 3 story and basement, brick and stone, plain foundation, here. To exceed $150,000. Private plans.

Mass., Quincy (Boston P. O.)—BUSINESS—Granite Trust Co., T. King, pres., plans brick and steel store and office building. $550,000. Engineer and architect not selected.

Mass., Quincy (br. Boston)—HOTEL—Stein & Applebaum, 35 Plymouth St., had preliminary plans prepared brick and steel, Hancock and Dimmock Sts. To exceed $150,000. Engineer and architect not selected.

Mass., Springfield — APARTMENT — O. W. McMahon, 182 State St., having preliminary plans prepared by W. Dibble, 21 Besse Pl., 4 story and basement, 70 x 105 ft., brick, plain foundation, 14-16 Mattoon St. To exceed $150,000.

Mass., Waltham (Ind. br. Boston)—WAREHOUSE—J. F. Morrissey, 19 Massassoit St., plans rein.-con., brick and steel, Massassoit St. $15,000 or more. Engineer and architect not selected.

R. I., Cranston—INFIRMARY—State of Rhode Island Pub. Welfare Dept., A. Sturgis, doctor, State House, having plans prepared by W. F. Fontaine, 285 Main St., Woonsocket, 2 story and basement, rein.-con., brick and stone, plain foundation, $150,000.

Conn., Bristol—ARMORY—State of Connecticut, Military Dept., State House, Hartford, having plans prepared by Payne & Keefe, 231 State St., New London, brick and steel, Center and Valley Sts. $175,000. Noted Feb. 3.

N. Y., Amsterdam—BANK and OFFICE—First Natl. Bank, C. E. Nisbit, pres., having plans prepared by Uffinger, Foster & Brookwater, 221 West 57th St., New York City, 7 story, 60 x 90 ft., rein.-con., brick and stone, concrete pile foundation $300,000.

N. Y., Port Washington—BANK—Bank of North Hempstead having plans prepared by Uffinger, Foster & Brookwater, 221 West 57th St., New York City, bank, here. $150,000.

N. Y., Syracuse — HOSPITAL and NURSES HOME—J. R. Pope, archt., 542 5th Ave., New York City, takes bids about July 20, hospital and nurses home, Crouse Ave., here, for Syracuse Memorial Hospital, 201 Green St. $2,500,000. Noted June 16.

N. Y., Troy—MASONIC TEMPLE—Masonic Temple, takes bids about July 23, 4 story, brick, steel, stone and concrete masonic temple. $325,000. Milliman & Morgan, Pioneer Bldg., 30 2nd St., archts. Noted May 17.

N. J., Bayonne — HOSPITAL — Jewish Hospital Assn., 2852 Hudson Blvd., receiving competitive sketches, 4 story, brick and steel, plain foundation, Hudson Blvd. and 40th St. $2,000,000.

N. J., Bloomfield — APARTMENT — Mamoe Realty Co., c/o M. J. Nadel, archt., 32 Hill St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, 200-2 Bellville Ave. $150,000.

N. J., East Orange—APARTMENT—Roseland Constr. Co., c/o L. Kasoff, archt., 164 Market St., Newark, having plans prepared 4 story, brick and steel, plain foundation, North Walnut St. $150,000

N. J., Elizabeth—APARTMENT—W. L. Finne (owner and architect), 91 Broad St., preparing plans 5 story, brick and steel, plain foundation, 120-6 De Hart Pl. $150,000.

N. J., Elizabeth—APARTMENT—Concord Development Co., c/o E. Gerber, archt., 786 Broad St., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, 546-48 Jefferson Ave. $150,000.

N. J., Elizabeth—APARTMENT and OFFICE—R. F. Mautner, 470 Morris Ave., having plans prepared 5 story, brick and steel, plain foundation, 468-72 Morris Ave. $200,000. Private plans.

N. J., Elizabeth — APARTMENTS — I. Stein, 342 Morris Ave., having plans prepared 4 story, brick and steel, plain foundation, 117-125 Acme St. $250,000. Private plans.

N. J., Elizabeth—BANK—Peoples Natl. Bank, 113 Broad St., having sketches made by Oakley & Son, 1259 Clinton Pl., 1 story, brick and steel, plain foundation, 3rd and East Jersey Sts. $150,000.

N. J., Elizabeth — DEPARTMENT STORE—M. Levy & Sons, 80 Broad St., having revised plans prepared by W. L. Finne, 91 Broad St., 1 story, 80 x 110 ft., brick and steel, plain foundation, 80-84 Broad St. $150,000. Former bids rejected. Noted June 16.

N. J., Irvington (br. Newark)—APARTMENT—Vermont Constr. Co., 259 Isabella Ave., having plans prepared by G. F. Lederer, 1091 Springfield Ave., 3 story, 100 x 100 ft., brick and steel, plain foundation, 18th St. and Courtney Ave. $150,000.

Buildings—Commercial (Continued)

N. J., Irvington (br. Newark)—TOWN HALL — Bd. Comrs., Town Hall, having competitive sketches made 3 story, brick and steel, plain foundation, Lincoln and Park Pls., Springfield and Nye Aves. $500,000.

N. J., Lyndhurst (br. Rutherford) — APARTMENT—J. Gibbs, c/o F. Pirrone, Midland Ave., Garfield, having plans prepared 4 story and basement, brick and steel, plain foundation, Ridge Rd., here. $150,000.

N. J., Newark—HOSPITAL—B. & R. Holding Corp., 59 Avon Ave., having revised plans prepared by J. S. Pigott, 14 Park Pl., 3 story and basement, brick and steel, plain foundation, 59 Avon Ave. $150,000. Former bids rejected. Noted May 19.

N. J., North Bergen (Ind. br. Weehawken)—APARTMENT — M. C. H. Constr. Co., c/o J. S. Setti, archt., 314 9th St., Union City, having plans prepared 4 story, brick and steel, plain foundation, 520-22 Hamilton Ave. $150,000.

N. J., Nutley (br. Newark)—APARTMENT and STORE—D. Steinberg, c/o A. J. Silberstein, archt., 60 Park Pl., Newark, having plans prepared 4 story, brick and steel, plain foundation, Park Ave. and Houghton St., here. $150,000.

N. J., Orange—APARTMENT—Robert Realty Co., 784 Broad St., Newark, having plans prepared by E. V. Warren, Essex Bldg., Newark, 4 story, brick and steel, plain foundation, Montainview Ave., here. $150,000.

N. J., Passaic — APARTMENT — F. Failsos, c/o J. DeRose, archt., 119 Ellison St., Paterson, having plans prepared 4 story, brick and steel, plain foundation, Westervelt Pl., here. $150,000.

N. J., Passaic—HOSPITAL—Beth Israel Hospital, 141 Madison Ave., raising $250,000 funds, 3 story and basement, brick and steel, plain foundation hospital, Bloomfield Ave. Engineer and architect not selected.

N. J., Plainfield — CLUB HOUSE — Fraternal Order of Eagles, Aerie 866, 226 East 2nd St., having plans prepared by E. V. French, 1334 Watchung Ave., 2 story and basement, 45 x 100 ft., brick and steel, plain foundation, Church St. near 2nd St. $150,000.

N. J., Princeton—THEATRE—Princeton Triangle Club, Princeton University, plans theatre. $200,000 appropriated. Engineer and architect not selected.

N. J., Rahway—BANK—Rahway Savings Bank, 112 Main St., having plans prepared by S. Williams, 146 Irving St., 1 story, 40 x 75 ft., brick and steel, plain foundation, 121 Irving St. $150,000.

N. J., Teaneck (mail West Englewood)—APARTMENT—Owner, c/o G. M. Pollard, archt., 250 West 14th St., New York City, takes bids about July 6, general contract 4 story and basement, 125 x 187 ft., brick and steel, plain foundation, here. $200,000. Noted May 17.

Pa., Phila.—GARAGE and SHOWROOM R. R. Kohn, archt., 1720 North Creighton St. soon lets contract 2 story and basement, 53 x 175 ft., rein.-con. and brick, plain foundation, 2026-28 North 22nd St., for B. M. Miller, c/o architect.

Pa., Phila. — SALES DISPLAY and MANUFACTURING—Manufacturers Exchange Realty Co., c/o W. Goldstein, 1415 Locust St., having plans prepared by L. B. Rothschild, 216 South Broad St., 16 story and basement, 96 x 162 ft., rein.-con. and brick, plain foundation, 232-48 North 11th St. $1,000,000.

Pa., Phila.—THEATRE—Hodgens & Hill, archts., 130 South 15th St., soon lets contract 1 story, balcony and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, 8th and South Sts., for Rixey Theatre Co., c/o architects. $300,000.

Md., Baltimore—CLUB—Buckler & Fenhagen, archt, 325 North Charles St., soon let contract 4 story and basement, irregular shaped, brick and steel addition, plain foundation, 6 West Madison St., for Baltimore Club, H. Burns, pres., Charles and Madison Sts. $150,000. H. Massart, 328 North Charles St., engr. Noted June 23.

Md., Baltimore — OFFICE — State of Maryland, E. A. Baughman, comr. Motor Vehicles, St. Paul and Saratoga Sts., having plans prepared by W. G. Beecher, 12 East Pleasant St., 3 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, 21st St. and Guilford Ave. $155,000.

Md., Baltimore—POLICE STATIONS—Mayor and City Council, City Hall, plan three 2 story and basement, irregular shaped, brick and steel, plain foundation, one in northeastern, one in eastern and other northwestern sections city. $450,000. Engineer and architect not selected.

Md., Baltimore—THEATRE—Edmondson Amusement Co., L. J. Schlichter, mgr., 2108 Edmondson Ave., having plans prepared by J. J. Zink, 2726 Overland Ave., 2 story, irregular shaped, rein.-con., brick and steel, plain foundation, Edmondson Ave. and Pulaski St. $250,000.

Md., Cumberland — HOSPITAL — West Maryland Hospital, W. M. Brown, supt., having plans prepared by Zantzinger, Borie & Medary, archts. and engrs., Otis Bldg., Phila., Pa., 6 story and basement fireproof hotel. $500,000.

W. Va., Wheeling—LODGE and STORE—Knights of Pythias Assn., 2417 Eoff St., having plans prepared by C. W. Bates, 77 12th St., and F. F. Farris, 1117 Chapline St., 4 story and basement, brick, stone and steel building. $200,000.

La., Shreveport — AUDITORIUM — City, L. E. Thomas, mayor, having preliminary plans prepared by S. Van Os, 1313 City Bank Bldg., auditorium. $550,000. Noted Mar. 24.

O., Cincinnati — HOSPITAL — Hamilton Co., Court House, having plans prepared by G. Drach, 1701 Union Trust Bldg., 4 story and basement, brick and rein.-con., plain foundation, Lick Run. $250,000.

O., Cleveland—APARTMENT—M. Bernstein, 3467 East 142nd St., had plans prepared by M. Weis, Union Bldg., 4 story and basement, 60 x 70 ft., brick, 1893 East 85th St. $150,000.

O., Cleveland—STORE, GARAGE and OFFICE, etc.—Carpenters Local 1108, J. L. Pegler, secy., 3064 Seymour Ave., having preliminary plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., 3 or 4 story and basement, 58 x 111 ft., brick, steel and concrete, West 38th St. and Lorain Ave. $150,000.

O., Cleveland Heights (Warrensville P. O.)—COMMERCIAL and APARTMENT—J. P. Burke, 1844 Coventry Rd., Cleveland, had plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., Cleveland, 2 story and basement, brick, steel and concrete, Coventry and Lancashire Rds., here. $150,000.

O., Columbus—BANK—Citizens Trust & Savings Bank, Gay and High Sts., having plans prepared by Snyder & Babbitt, 16 East Broad St., 3 story and basement, 40 x 150 ft., brick, stone and concrete, East Town St. $160,000.

O., Columbus—GARAGE and OFFICE—Company to be incorporated, B. Reinmund, promoter, having sketches made by Snyder & Babbitt, 16 East Broad St., 12 story and basement in front and 5 story and basement in rear, 125 x 187½ ft., brick, steel and concrete, North Front St. $150,000.

O., Kent—OFFICE—Davey Tree Expert Co., plans brick, steel and concrete, Twin St. $250,000.

O., Lakewood (br. Cleveland)—STORE and APARTMENT—I. Margolin, 1575 East Blvd., Cleveland, having plans prepared by M. Weis, 617 Union Bldg., Cleveland, 3 story and basement, brick, Detroit Ave. and West Clifton Blvd. $150,000.

O., Mansfield — STORE, OFFICE and THEATRE—Midwest Properties Co., S. H. Stecker, pres., 1836 Euclid Ave., Cleveland, having plans prepared 2 story and basement, brick, steel and concrete store, office and theatre building. $250,000.

O., Shaker Heights (Cleveland P. O.)—STORAGE—Windemere Storage Co., T. Heil, Jr., pres., 14441 Euclid Ave., Cleveland, plans 4 story, brick and rein.-con., Kinsman Rd. near Lee Rd. $150,000. Engineer and architect not selected.

Ind., Indianapolis—EXCHANGES—See "Unclassified."

Ind., Kokomo—COURT HOUSE—Comrs. Howard Co. having plans prepared by O. Cook, Armstrong Bldg., Kokomo, and W. Scholer, Painters Bldg., Lafayette, rein.-con., brick and stone court house. $500,000. Noted Mar. 24.

Ill., Chicago — APARTMENT — R. DeGoyler & Co., archts., 307 North Michigan Ave., prepared plans and soon takes bids 13 story and basement, 100 x 200 ft., rein.-con., brick, stone and terra cotta, 7321 South Shore Dr., for W. C. Bannerman & Co., 77 West Washington St. $1,000,000.

Ill., Chicago—APARTMENT HOTEL—A. Smith, c/o M. L. Bein, archt., 64 West Randolph St., having sketches made 4 story, brick, Jackson Blvd. and Albany Ave. $150,000.

Ill., Chicago — APARTMENT — S. C. Finck, 35 South Dearborn St., preparing plans and soon takes bids 12 story and basement rein.-con. and brick, on 100 x 298 ft. site, Sheridan Rd. and Glenlake Ave., for M. S. Willens, 160 North La Salle St. $2,000,000.

Ill., Chicago — APARTMENT — J. A. Roach, 7614 Eastlake Terrace, having plans prepared by L. C. Bouchard, 160 North La Salle St., 15 story and basement, 70 x 150 ft., rein.-con. and brick, Sheridan Rd. and Birchwood Ave. $1,500,000.

Ill., Chicago—AQUARIUM—South Park Comrs., E. J. Kelly, pres., 57th St. and Cottage Grove Ave., and Shedd Aquarium Society, M. A. Taylor, pres., 38 South Dearborn St., take bids in July, aquarium, octagonal structure, 500 ft. diam. with dome 100 ft. high, incl. large rotunda, 6 exhibition rooms, 132 permanent exhibition tanks, etc. on circular tract of land in Grant Park (Lake Front). $3,000,000. Noted Aug. 6, 1925, under "Unclassified."

Ill., Chicago—HOSPITAL—W. S. Crosby, archt., 6 North Michigan Ave., prepared plans and soon takes bids 6 story, 125 x 140 ft., rein.-con., brick and stone addition, 2449 West Washington Blvd., for Washington Blvd. Hospital Corp. $400,000.

Ill., Chicago—OFFICE and STORE—De Paul Educational Society, 84 East Randolph St., having plans prepared by K. M. Vitzhum & Co., 307 North Michigan Ave., 16 story and basement, 72 x 140 ft., rein.-con., brick, steel and stone, 64-68 East Lake St. $2,000,000.

N. D., Valley City—HOSPITAL—Sisters of Mercy Hospital soon takes bids superstructure 3 story and basement, rein.-con. and brick hospital. Excavation and foundation for same awarded to T. F. Powers Constr. Co., Fargo. Archts. total est. $150,000. G. J. Stauduher, Rock Island, Ill., archt.

Mo., Kansas City—APARTMENT—T. E. Gardner, 4414 Babs St., having plans prepared by Besecke & De Foe, 114 10th St., 10 story and basement, 58 x 90 ft., rein.-con. and brick, Armour St. and Gillham Rd. To exceed $150,000.

Mo., St. Louis—APARTMENT—Rhodes Realty Co., 1019 Pine St., having preliminary plans prepared by O. J. Popp, 1501 Arcade Bldg., 3 story and basement, 86 x 124 ft., rein.-con. and brick, Bellevue and Wise Sts. $150,000.

Tex., Corpus Christi—WAREHOUSE—R. J. Cummins, engr., 727 Bankers Mortgage Bldg., Houston, soon takes bids 50 x 80 ft., brick warehouse, 100,000 sq.ft. floor space, for R. A. Thompson, Corpus Christi. $200,000.

Tex., Dallas—EXCHANGE—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., soon takes bids superstructure 16 story and basement, 107 x 175 ft., brick, stone, rein.-con., steel and terra cotta, Akard and Wood Sts. $2,500,000. I. R. Timlin, c/o owner, archt. Lang & Witchell 300 Amer. Exch. Bank Bldg., Dallas, associated archts. W. J. Knight & Co., Wainwright Bldg., St. Louis, Mo., engrs. Noted Feb. 10.

Tex., McAllen — HOTEL — M. Nelson takes competitive bids after July 10, (2nd unit) 10 story, 150 room, rein.-con. hotel, plain foundation. $225,000. H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, archt. Noted Nov. 11.

Tex., Port Arthur—TEMPLE—Masonic Lodge, c/o C. Stevenson, chn. building com., had revised plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., and takes bids after July 1, 3 story and roof garden, 100 x 110 ft., rein.-con. and brick, plain foundation, Lakeshore and Lake Charles Aves. $150,000.

Tex., San Angelo—COURT HOUSE—A. F. Korn, archt., 316 Thomas Bldg., soon takes bids 2 story and basement, 64 x 175 ft. courthouse, for J. T. Mathison, judge Tom Greene Co. $294,000 bonds voted for same. Noted Feb. 24.

Okla., Oklahoma City — OFFICE — Builders Exch. Co., c/o J. B. Landers, Chamber of Commerce Bldg., having preliminary plans prepared 10 story and basemment, 50 x 140 ft., rein.-con. and brick, plain foundation, Grand St. $775,000. Engineer and architect not selected.

Calif., Los Angeles—APARTMENT—B. Goodin, c/o J. T. Payne, archt., Western Mutual Life Bldg., having plans prepared 4 story and basement, brick, North Kenmore St. $175,000.

Calif., Los Angeles—APARTMENT—S. H. Brown, archt., New Orpheum Bldg., preparing plans 4 story and basement, brick, Hollywood Blvd. and Edgemont St. $150,000. Owner's name withheld.

Calif., Los Angeles — APARTMENT — Smith & Swalm, 1032 North Western Ave., Junior High School, 1 story and part 2 story. $400,000 bonds, voted for same, having preliminary plans prepared by J. T. Payne, Western Mutual Bldg., 4 story and basement, 55 x 180 ft., brick, Union Pl. $150,000.

Calif., Los Angeles—BANKS—Security Trust & Savings Bank, 502 South Spring St., plans bank on 80 x 140 site, Sycamore Ave. and Hollywood Blvd.; also bank on 40 x 148 ft. site, South Spring St. $150,000 each.

Calif., Los Angeles—MARKET—Central Wholesale Market Co., 1226 East 8th St., had plans prepared by R. H. Orr, Corporation Bldg., 2 story market and office building, and eight 1 story buildings, 40 ft.

Constr. News page 423

Buildings—Commercial (Continued)

frontage with depths ranging from 150 ft. to 510 ft., brick, etc., 8th, 9th, Kohler and Central Aves. $250,000.

Calif., Los Angeles—STORE, OFFICE and LOFT — Owl Drug. Co., 551 South Bway., plans store, loft and office building, 6th and Bway. Sts. $250,000.

Calif., Los Angeles—STORE and OFFICE —United Cigar Store, 458 South Spring St., plans approximately 8 story, 100 x 120 ft., Hudson Ave. and Hollywood Blvd.

Calif., San Francisco—APARTMENT—T. R. Belmont, c/o L. Ebbets, archt., 251 Kearny St., had plans prepared two 3 story and basement, frame and stucco, Mason St. near Jackson St. $150,000.

Calif., San Francisco—APARTMENT—G. E. McCrea, archt., Hearst Bldg., preparing preliminary plans, 9 story and basement, rein.-con., Marine Dist. $200,000 or more. Owner's name withheld.

Calif., San Francisco — MEMORIAL — City and San Francisco Co. voted $4,000,000 bonds, war memorial.

Calif., San Francisco — STORE, STAGE DEPOT and HOTEL—O'Brien Bros., Inc., archts., 315 Montgomery St., soon takes bids 7 story, basement and sub-basement stage depot, hotel and store building, Mission and 5th Sts., for Pickwick Stage System, 75-5th St. $500,000. Noted June 2.

Calif., San Francisco—YACHT CLUB—St. Francis Yacht Club, c/o W. Polk & Co., archts., 277 Pine St., having plans prepared yacht club, Broderick and Baker Sts. $150,000.

Ont., Toronto—OFFICE—H. Falk, 23 Woodside Ave., had plans prepared by Baldwin & Greene, 31 Bloor St. E., 12 story and basement, 60 x 80 ft., rein.-con., Richmond St. E. $400,000.

Ont., Toronto—OFFICE—Natl. Trust Co., 22 King St. E., had plans prepared by C. B. Dolphin, 10 Leader Lane, 6 story and basement, rein.-con. and steel addition. $250,000.

Ont., Windsor — CLUB — North Amer. Athletic Club having plans prepared by Pennington & Boyde, 2 Bartlet Bldg., 12 story and basement, approximately 80 x 160 ft., rein.-con., brick, stone and steel, Pitt St. and Dougall Ave. $1,500,000.

Bids Desired

Mass., Cambridge (br. Boston)—BANK —Cambridge Trust Co., W. Phippan, treas., Harvard Sq., taking bids altering and constructing 1 story and basement, brick and steel addition, plain foundation. $150,000. T. H. James Co., 3 Park St., Boston, archts.

Mass., Framingham—HOSPITAL—July 6, by Coolidge Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, 3 story and basement, brick addition, plain foundation. Evergreen St., for Framingham Hospital Assn., G. A. Avery, pres. Noted Dec. 23.

Mass., Greenfield—HOTEL—July 6, by J. T. Sellew, mgr. Weldon Hotel Corp., altering and constructing 3 story and basement, brick and tile addition, plain foundation, High St. $150,000. Smith & Annabel, 145 State St., Springfield, archts.

Mass., Worcester—HOTEL—L. Chase, 390 Main St., taking bids reconstructing 5 story and basement, 50 x 80 x 130 ft., brick office buliding into hotel, plain foundation, Washington Sq. To exceed $150,000. F. R. MacNivin, 400 Burnside St., archt.

R. I., Providence—THEATRE and OFFICE—July 15, by Marcus Loew, Inc., 154 Bway., New York City, theatre and office building, Weybosset, Page and Pine Sts., here. $900,000. C. W. and G. L. Rapp, 231 West 43rd St., New York City, archts. Noted Jan. 20.

Conn., New Britain—THEATRE and STORE—Universal Co., 299 Main St., taking bids 2 story, 115 x 200 ft., brick and steel, 3,000 seating capacity, Washington St. $250,000. J. A. Tuck, Park Sq. Bldg., Boston, Mass., archt. Noted June 2.

N. Y., New York—OFFICE, THEATRE and MUSEUM—See "Contracts Awarded."

N. Y., Wingdale—STAFF ACCOMMODATIONS—July 13, by Commissioner Mental Hygiene, Dept., Mental Hygiene, Albany constructing staff accommodations (1 group of 3 semi-detached cottages), etc. at Harlem Valley State Hospital, here, adv. E. N.-R. June 30. Noted June 23.

N. Y., Woodside (Ind. br. Flushing) — APARTMENT—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Elizabeth — APARTMENT — See "Contracts Awarded."

N. J., Jersey City — CLUB HOUSE — Dodge & Morrison, archts., 160 Pearl St., New York City, taking bids general contract 8 story and basement, 45 x 100 ft., brick and steel, plain foundation, Bergen Sq. and Academy St., here, for Oddfellows Hall Assn., Bergen Sq. $350,000.

N. J., Montclair — APARTMENTS — See "Contracts Awarded."

N. J., New Brunswick—BANK, OFFICE and STORE—July 5, by H. G. Bach, archt., 63 Schureman St., general contract 4 story, 40 x 150 ft., brick and steel, plain foundation, Bayard and George Sts., for Citizens Natl. Bank, 362 George St. $200,000. M. H. Boylan, 143 Albany St., associated archt. Noted June 16.

N. J., Paterson—HOSPITAL—Fanning & Shaw, archts., 49 Ward St., taking bids general contract 3 story, brick and steel, plain foundation, Main St., for St. Josephs Hospital, 703 Main St. $150,000. Noted May 17.

N. J., Plainfield—APARTMENT—See "Contracts Awarded."

N. J., Westfield — APARTMENT — See "Contracts Awarded."

Pa., Phila. — THEATRE — July 2, by Hodgens & Hill, archts., 130 South 15th St., 1 story, balcony and basement, 124 x 210 ft., rein.-con., brick and steel, plain foundation, Broad St. and 67th Ave., for W. Freihofer, 16th and Indiana Sts. $325,000.

Ill., Joliet — O. H. Burnham & Co., archts., 160 North La Salle St., Chicago, taking bids 5 story and basement, 99 x 150 ft., rein.-con. and brick, Webster and Ottawa Sts., here, for Y. M. C. A. $500,000. Noted Apr. 21.

Wis., Milwaukee — APARTMENT — Backes & Uthus, archts., 216 West Water St., taking bids 6 story and basement, 110 x 140 ft., rein.-con. and brick, plain foundation, 15th St., for Goodman Holding Co., Milwaukee. $450,000.

Mo., St. Louis — MARKET and CIVIC CENTER—July 19, by Bd. Pub. Serv., 208 City Hall, 1 and 2 story and basement, 62 x 148 ft., rein.-con., brick and stone, 7th and Soulard Sts. $184,000. L. R. Bowen & A. Osburg, archts., and L. R. Bowen & H. Updike, engrs., both 301 City Hall. Noted Apr. 14.

Tex., Dallas — WAREHOUSE — Lang & Witchell, archts., 300 Amer. Ex. Bank Bldg., taking bids 3 story and basement, 200 x 400 ft. warehouse, Griffin and Collins Sts., for Huey & Philp Hardware Co., c/o G. A. Trumbull, Griffin and Elm Sts. $350,000. Noted Feb. 3.

Tex., Lubbock—SANITARIUM—Peters & Haynes, archts., 321 Temple Ellis Bldg., taking bids 2 story and basement, 97 x 98 ft., brick, Broadway St., for Lubbock Sanitarium Co., c/o J. T. Hutcherson, doctor. $150,000. Noted Oct. 21.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—TERMINALS—See "Contracts Awarded."

Bids Received

Mo., St. Louis—CIVIL COURTS—Bd. Pub. Serv., 208 City Hall, general contract (except foundation and steel) 24 story and basement, 135 x 162 ft., concrete, stone, steel and terra cotta, 11th St. between Chestnut and Market Sts., from Fruin-Colnon Contg. Co., Merchants Laclede Bldg., $3,450,000 (15 months) or $3,420,000 (18 months). Noted June 2.

Contracts Awarded

Mass., Chicopee—THEATRE—Goldstein Bros., Bway. Theatre, Springfield, 3 story and basement, rein.-con., brick, steel and stone, plain foundation, Spring St., to Myer & Showr, 67 Bond St., Springfield. Archts. est. to exceed $150,000. Noted May 7.

R. I., Artic—BANK—CentreVille Natl. Bank, E. Whitford, pres., 1 story, and basement, steel, limestone and granite, plain foundation, Main and Bank Sts., to J. F. Griffin Co., 250 Stuart St., Boston, Mass. Archts. est. $150,000. Noted June 23.

N. Y., Albany—HOME—Gander, Gander & Gander, archts., 17 Steuben St., 3 story, brick, steel and concrete, New Scotland Ave., to J. P. Sewell, 372 Hudson Ave., for Sisters of Mercy Home. $237,500. Noted June 16.

N. Y., Albany — OFFICE — Standard Building Corp., 44 West 18th St., New York City, 13 story, brick, steel and stone, 16,000 sq.ft. floor space, plain foundation, State and Howard Sts., here, to G. Richard Davis & Co., Inc., 12 East 41st St., New York City. Archts. est. $1,500,000.

N. Y., New York—BANK, OFFICE and SHOWROOM—Dee Realty Corp., 358 5th Ave., 35 story, 16,000 sq.ft. floor space, brick, steel and stone, plain foundation, 519-521 5th Ave., to G. Richard Davis & Co., Inc., 12 East 41st St. Archts. est. $2,000,000.

N. Y., New York—OFFICE, THEATRE and MUSEUM—Chanin Constr. Co., 285 Madison Ave., will build 52 story, 29,625 sq.ft. floor space, brick, steel and stone, plain foundation, Lexington Ave. from 41st to 42nd Sts. $12,000,000. Work will be done by separate contracts. Sloan & Robertson, 420 Lexington Ave., archts.

N. Y., Nyack — THEATRE and STORE —W. E. Lehman, archt., 972 Broad St., Newark, N. J., general contract 2 story, 120 x 220 ft., brick and steel, plain foundation, Bway. and High St., here, to W. J. MacEvoy Constr. Co., 85 Academy St., Newark, N. J. Archts. est. $150,000. Owner's name withheld. Bratter & Collar, 972 Broad St., Newark, N. J., lessee. Noted June 2.

N. Y., Woodside (Ind. br. Flushing) — APARTMENT—Lerose Constr. Co., 570 5th Ave., New York City, will build 6 story, 100 x 150 ft., brick and steel, concrete foundation, 39th Ave. and 61st St., here, $400,000. Work will be done by separate contracts. M. J. Harrison, 63 Park Row, New York City, archt.

N. J., Atlantic City—ARMORY—Bd. Institutions & Agencies, State Bldg., Trenton, armory, here, to W. Beaumont, 1 South Tennessee Ave., $169,000.

N. J., East Orange — APARTMENT — Broad & Emmett Constr. Co., 60 Park Pl., Newark, will build 4 story, 75 x 145 ft., brick and steel, plain foundation, 205 Main St., here. $150,000. Work will be done by separate contracts. N. Harris, 24 Branford Pl., Newark, archt.

N. J., Elizabeth—APARTMENT—C. and J. Stein, 846 Westfield Ave., will build 4 story, 50 x 70 ft., brick and steel, plain foundation, Stile and Fulton Sts. $150,000. Work will be done by separate contracts. A. J. Silberstein, 60 Park Pl., Newark, archt.

N. J., Glassboro — THEATRE, STORE and APARTMENT — W. H. Lee, archt., Schaff Bldg., Phila., Pa., 2 story, balcony, and basement, 115 x 274 ft., rein.-con., brick and steel, plain foundation, High and South Sts., here, to Stofflet & Tillotson, Wesley Bldg., Phila., for Penn Jersey Amusement Co., c/o architect. Noted June 16.

N. J., Montclair — APARTMENTS — J. Smith, 78 North Fullerton Ave., will build 3 story, 50 x 50 ft., brick and steel, plain foundation, 144-46 Walnut St. and Fullerton Ave. $150,000. Work will be done by separate contracts. Goldberg & Kraut, 437 Bway., Bayonne, archts.

N. J., Newark—THEATRE, OFFICE and STORE—Broad Park Realty Co., 972 Broad St., 4 story, brick and steel, to Arenberg & Fried Co., 21 East 40th St., New York City. Archts. est. $2,000,000.

N. J., Palisades Park—BANK and OFFICE—W. Neuman, archt., 40 Journal Sq., Jersey City, general contract 2 story, 35 x 75 ft., brick and steel, plain foundation, Columbia and Broad Aves., here, to O. O. Thompson, Morsemere, for Morsemere Trust Co., Broad Ave. Archts. est. $200,000. Noted May 12.

N. J., Plainfield — APARTMENT — J. Breen, 205 East Front St., will build 4 story and basement, brick and steel, plain foundation, Grant Ave. and 4th St. $150,000. Work will be done by separate contracts. W. H. Clum, 152 Park Ave., archt.

N. J., Westfield — APARTMENT — D. Holman, 670 Lexington Ave., will build 4 story, 75 x 100 ft., brick and steel, plain foundation. $150,000. Work will be done by separate contracts. Goldberg & Kraut, 437 Bway., Bayonne, archts. Noted June 23.

Md., Baltimore — HOSPITAL — J. E. Sperry, archt., Calvert Bldg., Wilmer Clinic, 4 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, Bway. and Jefferson Sts., to G. A. Fuller Co., Munsey Bldg., Wash., D. C., $350,000. Noted June 16.

Pa., Lansdowne—APARTMENT—H. B. Weldon, archt., 1817 Callowhill Ave., Phila., 3 units each 4 story and basment, 40 x 190 ft., brick and steel, plain foundation, Lansdowne Ave. and Garrett Rd., to Smith Hardican Co., 1809 Callowhill Ave., Phila. Owner's name withheld.

Pa., Phila. — GARAGE — R. Benckert, archt., Bellvue Court, 1 story and basement, 161 x 263 ft., and 79 x 120 ft., rein.-con., brick and steel, plain foundation, 47th and Spruce Sts., to F. W. Mark Constr. Co., Commercial Trust Bldg., for C. Siegel, Garden Court, West Phila. Archts. est. $200,000. Noted June 16.

Pa., Pittsburgh—SALES and SERVICE —Englert McKean Auto Co., 2134 Brownsville Rd., general contract 2 and 3 story and basement, 80 x 100 ft., rein.-con. and terra cotta, Bigelow Blvd., to A. & S. Wilson Co., 504 3rd Ave. Archts. est. $150,000. Noted May 26.

D. C., Wash.—BANK and OFFICE—A. B. Mullet & Co., archts, Union Trust Bldg., 9 story and basement, 1st floor 53 x 83 ft. and rest building 53 x 53 ft., granite, concrete and tile addition, 15th and H Sts. N.W., to James Baird Co., New York Ave. near 17th St., for Union Trust Co., 15th and H Sts. N. W. $750,000. Noted June 9.

Constr. News page 424

Buildings—Commercial (Continued)

Ala., Birmingham—THEATRE—Pantage Vaudeville Co., remodeling old Bijou Theatre, 3 story, 50 x 125 ft., 3rd Ave. and 17th St., to J. F. Holley Constr. Co., 817 17th St., Birmingham, $250,000.

Ohio—COTTAGES and TUNNEL—J. E. Harper, dir. Pub. Welfare, Columbus, 2 story and basement cottages with 30 x 90 ft. wing, and 910 ft. 8 ft. concrete tunnel, Hawthornden Farm, to W. J. Schirmer Co., 1720 Euclid Ave., $131,000.

O., Cleveland—ADMINISTRATION and COTTAGES—D. S. Blossom, dir. Pub. Welfare, City Hall, general contract 3 story and basement, 49 x 92 ft. administration building, and four 47 x 53 ft. cottages, all brick, steel and concrete, Broadview Rd., to Matheny Constr. Co., 1969 East 70th St., $230,700. Noted May 26.

O., Cleveland — WAREHOUSE—International Harvester Co., W. D. Price, supt. constr., 606 South Michigan Ave., Chicago, Ill., 3 story and basement, 70 x 120 x 145 ft., brick and rein.-con., East 55th St. and Julia Ave., to W. F. Hendrich Co., 2777 East 53rd St. Archts. est. $200,000. Private plans.

Ind., Ft. Wayne—WAREHOUSE—Home Telephone & Telegraph Co., 303 East Berry St., general contract 2 story and basement, 130 x 175 ft., brick and steel, to H. Wehrenberg, 252 Farmers Trust Bldg. Archts. est. $150,000. Noted Mar. 24.

Ind., Indianapolis—THEATRE, OFFICE and STORE—Peerless Realty Co., 152 North Delaware St., general contract 4 story and basement, 140 x 160 ft., rein.-con., brick, terra cotta and steel, to J. W. and W. C. Martin, 816 Continental Bank Bldg. Archts. est. $450,000. Noted Oct. 21.

Mich., Grand Rapids—APARTMENT and THEATRE—Syndicate, general contract 6 story and basement, 155 x 300 ft., rein.-con., brick, terra cotta and steel, Lake Dr. and Wealthy Sts., to J. J. Redding & Co., 10 North Clark St. Archts. est. $1,000,000.

Mich., Port Huron—BANK and OFFICE—Federal Commercial & Savings Bank, 2 story and basement, rein.-con., brick and steel, plain foundation, Military St., to W. E. Wood Co., 1805 Ford Bldg. Archts. est. $200,000. Noted Apr. 28.

Ill., Chicago—APARTMENT HOTEL—P. Stoffberg, 205 South La Salle St., masonry contract 3 story, 63 x 135 ft., brick, 4031-35 Kenmore Ave., to L. Rubin, 4958 North St. Louis Ave. Archts. est. $175,000.

Ill., Chicago—COURT HOUSE—Dept. Pub. Wks., Room 406, City Hall, general, electrical and all mechanical trades contract 13 story and basement, 120 x 139 ft., brick and stone, State St. near 11th St., to Great Lakes Constr. Co., 306 South Wabash Ave., $1,777,000. Noted Feb. 24.

Ill., Chicago—HOTEL—Seven Hundred Fifty Eight Sixty Four Jackson Boulevard Building Corp., 758-64 Jackson Blvd., masonry contract 3 story, 75 x 173 ft., brick, 758-64 West Jackson Blvd., to A. Lindstrom Co., 75 West Washington St. Archts. est. $100,000. Noted Mar. 17.

Ill., Chicago—OFFICE and STORE—D. H. Burnham & Co., archts., 160 North La Salle St., general contract Engineers Building, 23 story and 2 basements, 100 x 150 ft., rein.-con., brick, steel and terra cotta, plain foundation, Wells St. and Wacker Dr., to Paschen Bros., 111 West Washington St., for D. A. Coffey & A. F. McKeown, Inc., 310 South Michigan Ave. Archts. est. $4,000,000. Former contract rescinded. Noted June 2.

Ill., Chicago—STORE and LOFT—Hartman Furniture & Carpet Co., 3801 West 26th St., masonry contract 3 story, 53 x 111 ft., brick, 3301-03 West 26th St., to J. Kalchbrunner, 113 West Washington St. Archts. est. $150,000.

Ill., Danville—THEATRE, STORE and OFFICE—Danville Building Corp., general contract 10 story and basement, 130 x 206 ft., rein.-con., brick, steel and stone, North Vermillion and Madison Sts., to J. J. Redding & Co., 10 North Clark St., Chicago. Archts. est. $2,000,000.

Neb., Omaha — HOSPITAL — St. Joseph Hospital, 10th and Castellar Sts., remodeling and constructing 4 story and basement, addition to Peter Kiewits Sons, Natl. Bank Bldg., approximately $350,000. Noted June 2.

Minn., Minneapolis — OFFICE — W. B. Foshay Co., 9th St. and 2nd Ave. S., general contract 26 story and basement, rein.-con., brick and stone, 9th St. between Marquette and 2nd Aves., to M. Schumacher, 39 Dell Pl. Archts. est. $2,500,000. Noted Feb. 24.

S. D., Aberdeen—HOSPITAL—St. Lukes Hospital, Sisters of Presentation Academy, general contract 5 story and basement, rein.-con., brick and Bedford stone addition, State St. and 3rd Ave., to F. E. Peterson, Aberdeen, $229,500. Noted May 26.

Mo., St. Louis—HOTEL—A. E. Lewis, c/o Sylvester Lewis Realty Co., 4919 Natural Bridge Ave., general contract 8 story and basement, 150 x 150 ft., rein.-con., brick and terra cotta, Natural Bridge and Spring Aves., to Boaz-Kiel Constr. Co., 409 North 7th St. Archts. est. $750,000. Noted May 26.

Mo., St. Louis—OFFICE—Central States Life Insurance Co., 3207 Washington Blvd., remodeling 3 story and basement, 150 x 200 ft., rein.-con. and steel club house into office building, 3663 Lindell Blvd., to William H. and Nelson Cunliff Co., 410 North Euclid Ave. Archts. est. $150,000. Noted Aug. 12.

Tex., Laredo—OFFICE—J. A. Valls, general contract 3 story, 57 x 101 ft., rein.-con. and brick, plain foundation, Flores Ave. and Hidalgo St., to C. Schoenfeld, Laredo. Archts. total est. approximately $160,000.

Tex., Sweetwater—HOTEL—H. B. Allen & Associates, 6 story and roof garden, 100 x 140 ft. rein.-con., brick and tile, plain foundation, to J. E. Morgan, El Paso, $156,-388. Noted June 2.

Calif., Los Angeles—APARTMENT—F. Sward, 351 North Western Ave., will build 4 story and basement, 105 x 115 ft., brick, Country Club Dr. and 4th Ave., by day labor. $150,000 or more.

Calif., Los Angeles—APARTMENTS—C. A. Scheib, 920 South Beacon St., will build two 4 story and basement, brick, Clinton St., by day labor. $150,000 or more. R. D. King, Van Nuys Bldg., archt.

Calif., Los Angeles—APARTMENT—T. H. Miller, Financial Center Bldg., 4 story and basement, brick, Marathon St., to State Constr. Co., 6001 Santa Monica Blvd., $165,200.

Calif., Los Angeles—APARTMENT—S Goldberg, c/o L. Selden, archt., 515 Byrne Bldg., will build 4 story and basement, brick, West 3rd St., by day labor and subcontracts. $150,000.

Calif., Los Angeles—GIRLS HOME—A. Hamburger & Sons, Inc., 3 story and basement, rein.-con., Girard St., to H. M. Baruch, Lincoln Bldg., $175,000.

Calif., Los Angeles—HOTEL—Interests headed by contractor, 13 story and basement, rein.-con., South Spring St., to A. S. O'Neil, Stimson Bldg., approximately $1,000,000.

Calif., Los Angeles—TERMINALS—G. A. Bigler, 1226 East 8th St., will build Unit "A" 2 story, 237 x 304 ft., Unit "B" 25 x 140 ft., Unit "C" 135 x 140 ft., Unit "D" 25 x 140 ft. Unit "F" 30 x 250 ft., Unit "G" 30 x 220 ft., and Unit "H" 25 x 140 ft., all foregoing 1 story, between Kohler St. and Central Ave., by day labor. $225,-000. R. H. Orr, 1300 Corporation Bldg., archt. H. Lukens, 1226 East 8th St., engr. Noted Apr. 21.

Calif., Los Angeles—THEATRE, STORE and OFFICE—P. N. Snyder, Whittier and Atlantic Blvds., 2 story store and apartment, also 2 story theatre 140 x 250 ft., 1,500 seating capacity, (both buildings connected by arcade), Whittier Blvd., to Barkelew & Gould, 2813 Glendale Blvd., $205,000. Noted Mar. 3.

Calif., Oakland—APARTMENT—C. N. Burrell, archt., Amer. Bank Bldg., 6 story and basement, brick and steel, Haste St. and Telegraph Ave., to L. Lucas, 2201 Ashby Ave., for M. Witkow, Telegraph Ave. and Channing Way, Berkeley. Approximately $165,000. Noted June 2.

Calif., San Francisco—APARTMENTS—R. Stock, 1820 Clay St., four 4 story, brick and steel, California St. near Laguna St., to Stock, Maas & Sauer, 1820 Clay St., $80,000 each.

B. C., Vancouver—OFFICE—Sharp & Thompson, archts., 626 Pender St. W., 2 story (ultimately 4 story), 104 x 120 ft., rein.-con. and stone, Hastings and Howe Sts., to A. Rodger Contg. Co., 744 West Hastings St., for Macaulay, Nichols & Maitland, 746 Hastings St. W., $125,000. Total $175,000. Noted May 12.

Buildings—Industrial

Proposed Work

Mass., Boston—POWER and HEATING PLANT—City of Boston, Institutions Dept., City Hall, W. S. Kenney, comr., plans power and heating plant, Deer Island House of Correction. $125,000. Engineer and architect not selected.

Mass., Boston—BOILER HOUSE—City, Hospital Dept., J. P. Manning, having revised plans prepared by J. H. Ritchie & associates, 250 Stuart St., altering and constructing 1 story, brick and steel addition, plain foundation, Albany St. $200,-000. Noted May 12.

Mass., Ipswich—FACTORY—Mooney & Richardson plan reconstructing factory, recently destroyed by fire. $50,000. Engineer and architect not selected.

Mass., Quincy (br. Boston)—REPAIR & SERVICE GARAGE—J. P. Granahan, 28 Lunt St., plans 1 story, 80 x 100 ft., rein.-con., plain foundation, Norfolk Downs Sect. $45,000. Engineer and architect not selected.

Mass., South Boston (Sta. Boston)—REPAIR SHOP and GARAGE—R. S. Brine Transportation Co., 43 India St., Boston, having revised plans prepared by E. C. Luce, Jr., 14 Beacon St., 1 story, rein.-con., plain foundation, 194 West 1st St., here. To exceed $40,000. Former bids rejected. Noted June 23.

N. Y., Buffalo—MACHINE SHOP—H. E. Plumer & Associates, engrs. and archts., 775 Main St., soon let contract 1 story and basement, brick, plain foundation, 637-97 Northland Ave., for Niagara Machine & Tool Co., 637-97 Northland Ave. $100,000.

N. J., Paterson—RUBBER FACTORY—Paramount Rubber Co., 550 East 38th St., having plans prepared 2 story, brick and steel addition, plain foundation, Vreeland Ave. and Market St. $40,000. Private plans.

Pa., Phila. — SALES DISPLAY and MANUFACTURING — See "Buildings — Commercial."

Pa., Phila.—FACTORY—Harris & Richards, archts., Drexel Bldg., soon lets contract 4 story and basement, 80 x 90 ft., rein.-con. and brick addition, plain foundation, 5th and Noble Sts., for Walter P. Miller Co., 452 York Ave.

Ala., Birmingham—PLANT—Gulf Steel Co., B. M. Bldg., plans improvement and development program, incl. steel plant, coke ovens, finishing mills, coal, ore and blast furnaces, etc. $3,000,000.

O., Canton — FACTORY — Executives Union Metal Mfg. Co., 1432 Maple Ave., soon take bids 1 story, 50 x 100 ft., concrete and steel, 1424 Maple Ave. N. E. $40,000. R. O. Karchner, c/o owner, engr.

O., Cleveland — FACTORIES — Marble & Shattuck Chair Co., T. W. Foote, mgr., 10200 Foster Ave., having plans prepared by H. M. Morse & Co., Finance Bldg., two 4 story and basement, 66 x 121 ft., and 80 x 100 ft., brick and rein.-con., Foster Ave. $250,000.

O., Cleveland—OFFICE and FACTORY—Modern Mfg. Co., W. F. Bach, secy.-treas., 4734 Hough Ave., soon lets contract 1 and 2 story and part basement, 65 x 120 ft., brick, steel and concrete, 4734 Hough Ave. $50,000. Private plans. F. K. Rouge, c/o owner, engr.

O., Newton Falls—AUTO ENGINE FACTORY—All-in-One Motor Co., plans (1st unit) 50 x 100 ft. concrete and steel, Arlington Rd. $50,000.

Ind., Indianapolis — POWER HOUSE — See "Unclassified."

Ill., Chicago — STEEL FABRICATING SHOP—North West Side Iron Wks., 1518 North Western Ave., had plans prepared by H. C. Miller, 5 North La Salle St., and soon takes bids 1 and 2 story, 160 x 162 ft., brick, 4200 Diversey Blvd. $300,000.

Ill., Decatur—FACTORY—A. E. Staley Mfg. Co., Decatur, plans 3 story and basement factory. $100,000. Private plans.

Wis., Burlington—CREAMERY—Davis & Tuckwell, archts., 377 National Ave., Milwaukee, soon lets contract remodeling and constructing 2 story and basement, 44 x 100 ft., rein.-con., steel and artificial stone addition, plain foundation, 558 Conkey St., for J. Bazal, 558 Conkey St. $40,000. Noted Jan. 13.

Mo., Chillicothe—CREAMERY—Company organizing, c/o L. Williams, judge, Dawn, having preliminary plans prepared creamery, brick and concrete, here. $100,000.

Mo., St. Louis — FACTORY — Syndicate, c/o E. C. Thompson, Pierce Bldg., having preliminary plans prepared rein.-con., brick and steel factory. $100,000. Private plans.

Tex., Corpus Christi — PLANT — Alamo Iron Wks., c/o 130 Santa Clara St., San Antonio, purchased site and plans 2 story, 127 x 300 ft., rein.-con. plant for wholesaling products, also establishment steel fabrication plant. $150,000 incl. equipment. Private plans.

Tex., Edinburg — ICE PLANT and WAREHOUSE—Pacific Fruit Express Co., H. T. White, 605 Commercial Bank Bldg., Houston, soon lets contract 1 and 2 story, 84 x 293 ft. ice plant, rein.-con. and steel, incl. blacksmith shop, M. & S. store room, and water softener room, 66 x 38 ft. garage, storage building under icing platform, 2300-230 volt sub-station, storm and sanitary sewers, septic tank, here. $250,-000. Private plans.

Tex., Harlingen—ICE STATION—J. M. Marriott, archt., Frost Natl. Bank Bldg., San Antonio, preparing plans and soon takes bids 1 story ice station, brick, tile and rein.-con., for Texas Central Power

Constr. News page 425

Buildings—Industrial (Continued)

Co., c/o E. B. Nieswanger, genl. mgr., Frost Natl. Bank Bldg., San Antonio. $50,000.

N. M., San Marcial — POWER and LIGHT PLANT—Tex-La Power Co., Ft. Worth Club Bldg., Ft. Worth, Tex., plans rebuilding power and light plant, here, recently destroyed by fire. Private plans.

Calif., Fresno—SHOP—D. M. Barnwell, clk. Fresno Co., plans rebuilding shop buildings, Chance and Butler Aves., recently destroyed by fire. Loss $50,000. C. P. Jensen, city engr.

Calif., Los Angeles—FOUNDRY—West Coast Fdry. Co., c/o Industrial Building Co., designers, Pacific Natl. Bank Bldg., having plans prepared 1 story, approximately 12,000 sq.ft. floor space, steel and corrugated iron, 1st and Gates St.

Calif., Los Angeles—WAREHOUSE and FACTORY — Illinois-Pacific Glass Wks., Folsom and 15th St., San Francisco, had plans prepared factory, 300,000 bottle gross capacity per year, Miles Ave. Private plans.

Calif., Watsonville—PACKING PLANT—Story & DeLang, archts., Watsonville, soon take bids 1 story, 200 x 230 ft., rein.-con., Walker St., for N. Alaga, c/o architects.

Ont., Goderich—PLANT—J. E. Baechler plans plant for manufacturing various wooden specialties, handles, utensils, etc. $50,000.

Ont., Toronto—FACTORY—Reliance Engravers Ltd., 70 Centre St., having plans prepared by B. Brown, 600 Bay St., 4 or 5 story and basement, concrete, brick and stone, Bond St. $150,000.

Bids Desired

N. H., Claremont—POWER HOUSE—See "Dams."

Mass., Boston — BOILER and PUMP ROOM, etc.—July 12, by City, Hospital Dept., J. P. Manning, Harrison Ave., altering and constructing boiler and pump room additions, incl. equipment, Albany St.

Mass., Brookline (br. Boston)—REPAIR SHOP and GARAGE—Hotel Beaconsfield, 1731 Beacon St., taking bids 1 story, 15,000 sq.ft. floor space, rein.-con., brick and steel addition, plain foundation, Beacon St. $70,000. H. F. Bryant, 334 Washington St., archt. Noted June 2.

Mass., Chelsea—REPAIR and SERVICE GARAGE—Union Motor Sales Co., 40 4th St., taking bids 1 and 2 story, rein.-con. and brick, 4th St. $40,000. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Mass., Holyoke — REPAIR SHOP and GARAGE—F. Rainault, c/o F. H. Franz, archt., 276 High St., taking bids 1 story, rein.-con., plain foundation, Cabot St. $50,000. Noted Dec. 30.

N. Y., Newark—LAUNDRY—July 13, by Commissioner Mental Hygiene, Capitol, Albany, laundry at State School for Mental Defectives, here. S. W. Jones, Capitol, Albany, state archt. Noted May 17.

Mich., Muskegon—OIL BULK DEPOT—Standard Oil Co., 910 South Michigan Blvd., Chicago, Ill., taking bids 2 story and basement, 64 x 90 ft. warehouse, 1 story, 84 x 106 ft. garage, 8 tanks 10 x 29 ft. long, 3 tanks 10 x 20 ft. long, 2,650 sq.yd. concrete paving, etc., Park St., here. $125,000. Schlinz & Bailey, 757 Monadnock Bldg., Chicago, Ill., archts.

Ia. Dubuque — FACTORY — Maizwood Products Corp., H. Brennan, pres., 209 South State St., Chicago, Ill., taking bids and opens same about July 1, 1 story, 60 x 450 ft., concrete, brick and steel factory. $100,000. Noted June 23.

Tex., Houston—PLANING MILL—See "Contracts Awarded."

Tex., Stamford — LAUNDRY — Wallace Bros., taking bids, 1 story, 60 x 160 ft., concrete and steel laundry. $75,000 incl. equipment. D. S. Castle Co., 701 Alexander Bldg., archts.

Calif., Wilmington—COTTON PLANT—See "Contracts Awarded."

B. C., Trail — PLANT — See "Contracts Awarded."

Contracts Awarded

Vt., White River Junction — REPAIR SHOP and GARAGE—Miller Auto Co., 2 story, rein.-con. and brick addition, plain foundation, to W. H. Trumbull, Hanover, N. H. Archts. est. $40,000. Noted Apr. 28.

Mass., Boston — FACTORY — Coleman Levine, 138 Portland St., altering and reconstructing 5 story, 70 x 100 ft., brick addition, to Moran Bros., 18 Cambria St.

Mass., Boston—SERVICE and REPAIR GARAGE — Firestone Tire & Rubber Co., Akron, O., 1 story, rein.-con. and brick, plain foundation, Brookline Ave. and Fullerton St., here, to Stone & Webster, 141 Milk St. Archts. est. to exceed $40,000. Noted Mar. 10.

Mass., Caryville — DYE HOUSE — Taft Woolen Co., c/o C. T. Main, Inc., engrs., 201 Devonshire St., Boston, 1 and 2 story, 50 x 115 ft., brick, plain foundation, to Eastern Constr. Co., 345 North Main St., Woonsocket, R. I. Engrs. est. $40,000. Noted June 9.

Mass., Milton (br. Boston) — REPAIR and GARAGE—Godfrey Coal Co., Wharf St., 1 story, rein.-con. and brick, plain foundation, Wharf St., to Clark & Smith, 13 Temple St., Quincy. Archts. est. $40,000.

Mass., Northampton — PLANT — Northampton Gazette Co., C. H. Gere, pres., 14 Gothic St., 1 story and basement, brick and steel, plain foundation, to F. L. Huxley, 46 Franklin St. Archts. est. $40,000.

Mass., Somerville (br. Boston)—MILLS—Boston & Maine R.R., W. J. Backes, ch. engr., Lechmere Sq., Boston, 1 story, 30 x 125 ft., 20 x 30 ft., and 20 x 40 ft., rein.-con., plain foundation, Yard 8, N. E. Asylum Hill, here, to D. P. Robinson, Inc., Box 56, North Post Station, Boston. Archts. est. $40,000.

Mass., Stoneham—WAREHOUSE—E. L. Patch Co., 38 Mt. Vale Rd., 5 story, 60 x 85 ft., rein.-con. and brick, plain foundation, to Somers & Drisco, Park Sq. Bldg., Boston. Noted June 23.

Mass., Wellesley—REPAIR and SERVICE GARAGE—Wellesley Colonial Garage, Inc., c/o Blackall, Clapp & Whittemore, archts., 31 West St., Boston, 2 story, 105 x 140 ft., brick, stone and steel, plain foundation, Linden and Central Sts., to Leighton & Mitchell, Inc., 99 Chauncy St., Boston. Archts. est. to exceed $40,000. Noted May 26.

Mass., West Springfield (br. Springfield) —PLANT—United Electric Light Co., State and Bliss Sts., L. J. Scott, genl. mgr., steel switching plant and transformer equipment installation, to Stone & Webster, Inc., 49 Federal St., Boston. Archts. est. $600,000. Noted May 19.

R. I., Providence — BAKERY and GARAGE—Yankee Cake Co., 63 Willard St., 2 story and basement, 95 x 100 ft., and 1 story, 75 x 80 ft., plain foundation, Dexter St., to C. I. Bigney Constr. Co., 184 Washington St. Archts. est. to exceed $40,000.

N. Y., Binghamton — PLANT — General Cigar Co., 119 West 40th St., New York City, rein.-con., brick and steel plant, here, to Bowie & Clark. Archts. est. $600,000. Noted April 7.

N. Y., Niagara Falls—POWER PLANT —Certain-teed Products Corp., 100 East 42nd St., New York City, 1 story, 49 x 64 ft., rein.-con., brick and steel, to Laur & Mack, 1400 College Ave.

N. J., Jersey City—SUBSTATION—Pub. Serv. Corp. of New Jersey, Terminal Bldg., Newark, general contract 2 story, 60 x 60 ft., brick and steel, plain foundation, Sip and Whitman Aves., to James Mitchell, 40 Journal Sq. Archts. est. $50,000.

N. J., Paterson—SILK FACTORY—A. A. Fischer, Inc., 200 Straight St., general contract altering 2 story, 60 x 125 ft., brick and steel, plain foundation, 200 Straight St., to F. G. Pettet Constr. Co., 9 Colt St. Archts. est. $40,000.

N. J., Rockaway—HOSIERY MILL—A. W. Fox, Rockaway Ave., general contract 3 story, 55 x 100 ft., brick and steel, plain foundation, Denville Rd., to Pugsley & Stone, 132 East Blackwell St., Dover. Archts. est. $75,000.

Pa., Phila.—MANUFACTURING—P. M. Sax, engr., Penfield Bldg., 4 story and basement, 94 x 148 ft., rein.-con. and brick, plain foundation, 12th and Callowhill Sts., to F. V. Warren Co., 1913 Arch St., for Wolf Building Co., c/o engineer. Archts. est. $350,000. Noted June 9.

Pa., Pittsburgh—ASSEMBLING PLANT — Argonaut Realty Co., General Motors Corp., General Motors Bldg., Detroit, Mich., general contract 1 and 2 story, 220 x 290 ft., brick and steel, 37th St., here, to Everett Winters Co., 1651 East Grand Blvd., Detroit, Mich. Archts. est. $350,000.

Tenn., Yale — ROUND HOUSE — St. Louis-San Francisco R.R. Co., Frisco Bldg., St. Louis, Mo., F. G. Jonah, ch. engr., 24 stall frame and steel roundhouse, here, to C. G. Kershaw, Woodward Bldg., Birmingham, Ala., approximately $75,000. Noted Mar. 24.

Ky., Louisville — FACTORY — Bessire Realty Co., 13th and Main Sts., 1 story and basement, 200 x 200 ft., rein.-con., and brick, plain foundation, 13th and Main Sts., to L. W. Hancock Eng. Co., Louisville Trust Bldg., approximately $100,000.

O., Cleveland—BAKERY—Fisher Bros. Co., M. F. Fisher, pres., 2323 Lakeside Ave., 1 story and basement, 60 x 80 ft., brick and rein.-con. addition, 2323 Lakeside Ave., to S. W. Emerson Co., 1900 Euclid Bldg. Archts. est. $40,000.

O., Dayton—BAKING PLANT—Dayton Bread Co., c/o Heald & Pickerel, Dayton Savings & Trust Bldg., 3 story and basement, brick and rein.-con., plain foundation, Ludlow and Apple Sts., to Hillsmith & Co., Winters Bank Bldg., approximately $100,000.

O., Gallipolis — FACTORY — Gallipolis Looseleaf Tobacco Co., 3 story and basement, L shaped, concrete and steel, Sycamore St., to E. C. Hollandsworth, Hurricane, W. Va., approximately $45,000.

O., Springfield—WAREHOUSE—Hodge Storage Co., 4 story and basement, brick, West Jefferson St., to J. A. Poss, Genl. Del., Springfield, $50,000.

Ind., Evansville—PACKING PLANT—Amer. Packing Co., general contract rein.-con. and brick, Kentucky Ave. and Division St., to J. Nellis, 712 Lincoln Ave. Archts. est. $45,000.

Mo., Fayette—HEATING PLANT—Central Howard Payne College, 2 story and basement, rein.-con. and brick heating plant, to John Epple Constr. Co., Ferguson, approximately $100,000.

Mo., St. Louis—SERVICE and GARAGE —Coronado Hotel, P. Bradshaw, pres., Spring and Lindell Sts., 3 story, 90 x 100 ft., rein.-con. and brick, Westminster Pl. near Spring Ave., to Hercules Contg. Co., Wainwright Bldg. Archts. est. $85,000.

Tex., Amarillo — WAREHOUSE — Santa Fe & Panhandle R.R. Co. (subsidiary Atchison, Topeka & Santa Fe R.R., M. C. Blanchard, ch. engr. Western Lines, Amarillo), 1 story, 50 x 270 ft. warehouse and storage room, to W. G. Windsor, Oliver-Eakle Bldg., $65,000.

Tex., Ft. Worth—ROUND HOUSE and CAR SHOPS—Texas & Pacific R.R. Co., c/o E. F. Mitchell, ch. engr., Dallas, brick and steel round house and car shops to Austin Co., Lintz Bldg., Dallas, $600,000; 1,200 tons structural steel, to Virginia Bridge & Iron Co., Kirby Bldg., Dallas.

Tex., Houston — PLANING MILL — Thacker Bldg. & Lumber Co. will build 1 story, timber planing mill, by day labor. $40,000. Private plans.

Ore., Oregon City — PAPER MILL — Hawley Pulp & Paper Co., general contract paper mill, rein.-con. and brick, to A. Guthrie & Co., 1209 Builders Exch. Bldg., St. Paul, Minn. Archts. est. approximately $600,000. Noted May 5.

Calif., San Jose—PUBLISHING PLANT —San Jose Mercury-Herald, 4 story and basement, rein.-con., West 1st St., to R. O. Summers, 17 North 1st St., approximately $112,500. Noted Mar. 24.

Calif., Wilmington—COTTON PLANT—California Compress & Warehouse Co., M. Selig, Mills Bldg., San Francisco, will build 1 story, 100 x 200 ft. rein.-con. and steel, by day labor and sub-contracts. $350,000. F. J. Amweg, 251 Kearny St., San Francisco, engr. and mgr. constr. Noted June 2.

B. C., Trail—PLANT—Consolidated Mining & Smelting Co. of Canada Ltd. will build contact process sulphuric acid plant, also experimental phosphate fertilizer plant. $250,000. Work will be done by owners or subcontractors. Private plans.

Philippine Islands — SUGAR MILL — Compania Tabacalera, Barcelona, Spain, constructing sugar mill, 5,000 metric tons per day, in Tarlac Province, here, to Fulton Iron Wks., 1259 Delaware St., St. Louis, Mo., approximately $2,000,000.

Buildings—Educational, Religious

Proposed Work

N. H., Concord—NURSES HOME—State of New Hampshire, C. H. Dolloff, supt., takes bids after July 1, 3½ story and basement, 40 x 115 ft., and 35 x 60 ft., rein.-con. and stone, plain foundation, at State Hospital. $150,000. Wells & Hudson, Hanover, archts. Noted Feb. 24.

Mass., Belmont—CHAPEL—Our Lady of Mercy Roman Catholic Church, C. J. Maguire, pastor, 399 Belmont St., having plans prepared by Maginnis & Walsh, 100 Boylston St., Boston, 1 story and basement, brick and stone, plain foundation, Belmont St. and Oakley Rd. $150,000.

Mass., Boston—DORMITORY—City, Institutions Dept., City Hall, W. S. Kinney, comr., having preliminary sketches made by J. H. Ritchie & associates, 250 Stuart St., for mens dormitory, brick, at Long Island Hospital. $300,000.

Mass., Boston—NURSES HOME—City of Boston, Institutions Dept., W. S. Kinney, comr., City Hall, having sketches made by J. H. Ritchie & Associates, 250 Stuart St., 3 story and basement, brick, at Long Island Hospital. $150,000.

Mass., Lynn — SCHOOL — City, R. S. Bauer, mayor, having plans prepared by Sanborn & Weed, Item Bldg., reconstructing 2 story and basement administration building, and 3 story and basement school,

Constr. News page 426

Buildings—Educational, Religious (Cont.)

brick and steel, plain foundations, McTollin Sq., recently destroyed by fire. To exceed $150,000.

Mass., Watertown — CHURCH — Union Church, 11 Tappan Rd., Wellesley, had plans prepared by Brainard & Leeds, 89 Franklin St., Boston, 1 story and basement, brick, plain foundation, Main St. Noted Oct. 28.

Conn., Middletown—CHURCH—Italian Roman Catholic Church, S. Mazzotta, 1019 Asylum St., South Farms, raising $200,000 funds, church. Engineer and architect not selected.

Conn., Storrs—COLLEGE—Connecticut Agriculture College, F. L. Salmon, comptroller, State House, Hartford, having plans prepared by D. K. Perry, 17 Court St., New Britain, 3 story and basement, 1,000,000 cu.ft. floor space, brick and steel, here. $354,000. Noted May 12.

N. Y., Far Rockaway—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, rejected bids June 21, Far Rockaway High School, Cornaga Ave., Oceancrest Blvd., Beach 25th and 29th Sts., here. Will readvertise. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. Noted June 9.

N. Y., New York—CHURCH-HOTEL—Owner, c/o Tillion & Tillion, archts., 415 Lexington Ave., having plans prepared 23 story and basement, 102 x 134 ft., brick, steel and stone, concrete foundation, 76th St. and Bway. $2,000,000. Manhattan Congregational Church, 213 West 76th St., lessee.

N. Y., Rensselaer—SCHOOL—Common Council had plans prepared by C. H. Gardinier, 703 New York State Bank Bldg., Albany, 2 story and basement, 500,000 cu. ft. floor space, brick, steel and concrete school. $200,000. Noted Feb. 17.

N. Y., Willsboro—HIGH SCHOOL—Bd. Educ. having revised plans prepared by Pember & Demers, 24 James St., Albany, and soon takes bids school. $150,000. Former bids rejected. Noted May 28.

N. J., Fords—CHURCH and SCHOOL—Our Lady of Peace Roman Catholic Church, having plans prepared by G. Brooks, 158 Madison Ave., Perth Amboy, 3 story and basement, brick and steel, plain foundation. $150,000.

N. J., Jersey City—HIGH SCHOOL—St. Dominicks Academy, 669 Bergen Ave., had plans prepared by Kelley & Cowan, 921 Bergen Ave., 4 story and basement, 45 x 120 ft., brick and steel, plain foundation, Fairview Ave. $150,000.

N. J., Livingston—SCHOOL—Bd. Educ., Town Hall, having sketches made by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story and basement, brick and steel, plain foundation.

N. J., Perth Amboy—SCHOOL—G. M. Ricci, archt., 224 Smith St., takes bids about July 15, 2 story and basement, 85 x 200 ft., brick, steel and stone, plain foundation, Cortland St., for Our Lady of Hungary Roman Catholic Church, 697 Cortland St. $150,000.

Pa., Lock Haven—HIGH SCHOOL—Bd. Educ. having plans prepared by Lowrie & Green, Harrisburg, 2 story and basement, 150 x 300 ft., brick and concrete high school with vocational shops, gymnasium, etc. $250,000.

W. Va., Wellsburg—HIGH SCHOOL—Bd. Educ. having plans prepared by C. W. Bates, 77-12th St., Wheeling, 2 and 3 story and basement, brick and steel, Main St. $250,000. Noted June 9.

Mich. Detroit—CHURCH and COMMUNITY HOUSE—Nardin Park Methodist Episcopal Church, c/o John Stahl & Co., archts., 628 McKerchey Bldg., having plans prepared 2 story and basement, 80 x 110 ft. church, and 4 story and basement, 100 x 100 ft. community house, both rein.-con., brick and steel, plain foundation, Nardin Park.

Mich., Detroit—SCHOOL—Dist. 3, Lake Twp., c/o G. J. Haas, archt., 2231 Park Blvd., having plans prepared 2 story and basement, 140 x 150 ft., rein.-con., brick and steel, plain foundation, Nine Mile Rd. $150,000.

Mich., Waterford — SCHOOL — Dist. 7 Waterford Twp., c/o Lane, Davenport & Peterson, archts., 1017 Charlevoix Bldg., Detroit, having plans prepared 2 story and basement, rein.-con., brick and steel, plain foundation, here. $160,000.

N. D., Fargo—DORMITORY—Holding Company, J. L. Coulter, pres. State Agricultural College, chn. building com., having plans prepared by W. F. Kurke, Kaufman Bldg., 3 story and basement, rein.-con. and brick college dormitory. $150,000.

Mo., Kansas City—SCHOOL—Bd. Educ. having plans prepared by C. A. Smith, 800 Finance Bldg., Marlborough School, 2 story and basement, rein.-con. brick and stone, Marlborough Dist. To exceed $150,000.

Mo., Kansas City—SCHOOL—Bd. Educ. having plans prepared by C. A. Smith, 800 Finance Bldg., Nelson School (2 units), 2 story and basement, rein.-con. and brick. To exceed $150,000.

Mo., St. Louis—SCHOOL—Central Institute for Deaf, 818 South Kingshighway, takes bids in July, 3 and 4 story and basement, 80 x 216 ft., rein.-con., brick and stone addition, South Kingshighway. $300,000. W. B. Ittner, 911 Locust St., archt.

Mo., St. Louis—DENTAL SCHOOL—Washington University, Skinker and Forsythe Blvds., takes bids about July 31, 4 story and basement, rein.-con., brick and stone, Scott Ave. near Euclid Ave. $250,000. La Beaume & Klein, 716 Compton Bldg., archts. Noted May 19.

Mo., St. Louis—DORMITORY—Washington University, Forsythe St. and Skinker Blvd., soon lets contract 3 story and basement, 53 x 190 ft., rein.-con., red granite and Bedford stone, incl. 64 x 125 ft. gymnasium. Jamieson & Spearl, 1116 Arcade Bldg., archt. W. J. Knight & Co., Wainwright Bldg., engrs. Noted May 12.

Tex., Canyon — EDUCATION — West Texas State Teachers College, c/o J. A. Hill, pres., soon takes bids educational building. $350,000 appropriated.

Tex., San Angelo—COLLEGE—Phelps & DeWees, archts., 718 Gunter Bldg., San Antonio, prepared plans and soon take bids Junior College, 2 story and basement, brick and stone. $250,000.

Okla., Earlsboro—HIGH SCHOOL—Bd. Educ. had preliminary plans prepared by J. J. Davis, Shawnee, rein.-con. and brick, plain foundation, 2nd St. $175,000.

Okla., Norman—CHURCH—First Christian Church, soon lets contract, 3 story and basement, rein.-con., brick and stone church. $250,000. Sorey & Vahlberg, Braniff Bldg., Oklahoma City, archts. Noted May 5.

Calif., Antioch — HIGH SCHOOL — Antioch High School Dist. defeated $175,000 bonds, fireproof high school. Noted Mar. 10.

Calif., Oakland — CHURCH — First Lutheran Church, E. Mill, pastor, 16th and Grove Sts., plans fireproof church. $300,000 available.

Calif., San Luis Obispo—SCHOOL—San Luis Obispo High School Bd. takes bids about July 2, remodeling 2 story and basement, 150 x 250 ft. building into Junior College, also 1 story domestic science building, and 1 story shower and locker room, etc. $350,000. T. C. Kistner & Co., 1121 Detwiler Bldg., Los Angeles, archts. Noted Dec. 23.

Ont., Sarnia—SCHOOL—Bd. Educ. plans 2 or 3 story and basement, Russell St. $200,000. Engineer and architect not selected.

Bids Desired

N. H., Manchester—SCHOOL—Our Lady of Perpetual Help, Roman Catholic Church taking bids 2 story and basement, brick and stone, plain foundation, Haywood St. $150,000. W. E. Provest, 1061 Elm St., archt.

Mass., Amherst—LIBRARY—July 6, by Putnam & Cox, archts., 115 State St., Boston, 3 story and basement, brick and stone, plain foundation, here, for Town. $250,000. Noted May 19.

Mass., Beverly—SCHOOL—July 5, by City Building Com., City Hall, altering and constructing 2 story and basement, brick and stone addition, plain foundation, McKay St. $150,000. C. T. Main, 210 Devonshire St., Boston, engr.

Mass., Brookline (br. Boston)—TEMPLE—Temple Obebie Shalom, 11 Union Park St., Boston, taking bids general superstructure 1 story, basement, and tower, irregular shaped, brick and limestone, plain foundation, Beacon St. $350,000. Blackall, Clapp & Whittemore, 31 West St., Boston, archts. Noted May 12.

Mass., Cambridge (Boston P.O.) — DORMITORY—Harvard University, taking bids altering and constructing 4 story and basement, brick addition, plain foundation, $150,000. T. M. James Co., 3 Park St., Boston, archts.

Mass., Cambridge (br. Boston)—DORMITORY — Massachusetts Institute of Technology, S. W. Stratton, pres., 222 Memorial Dr., taking bids two 5 story and basement, rein.-con., brick and limestone, plain foundation, Technology grounds. $600,000. Private plans. Noted June 2.

Mass., Lynn—SCHOOL—June 28, City Executive Offices, City Hall, brick and steel school, Cobbett St. $150,000 or more. Sanborn & Weed, 38 Exchange St., archts.

Mass., Malden (Bston P. O.) — SYNAGOGUE — Congregation Beth Israel of Malden, c/o Eisenberg & Feer, archts., 46 Cornhill Boston, taking bids altering and constructing 1 story and basement, brick and rein.-con. addition, plain foundation. $150,000.

Mass., Roxbury (Boston P. O.) — SCHOOL—July 7, by Schoolhouse Dept., Boston, 3 story and basement, irregular shaped, brick and limestone, plain foundation, Kearsarge Ave. and Winthrop St., here. $400,000. C. R. Greco, 11 Beacon St., Boston, archts. Noted May 5.

Mass., Winchester—SCHOOL—Town, J. Quinn, supt. schools, taking bids brick and stone addition to Wyman School, plain foundation, Church St. $150,000. Kilham, Hopkins & Greeley, 9 Park St., Boston, archts. Noted May 5.

R. I., Providence — CHURCH — Swedish Evangelical Lutheran Gloria Dei Church, c/o M. Hedmark, archt., 97 Congress Ave., taking bids 1 story and basement, brick and stone, plain foundation, Hayes St. $150,000. Noted Jan. 20.

Conn., Greenwich—LIBRARY—July 2, by Greenwich Pub. Library Assn., Greenwich Ave., altering and constructing brick and steel addition. $125,000-$150,000. W. Tubby, 475 5th Ave., New York City, archt. Noted Feb. 17.

N. Y., Ithaca — GREENHOUSES EXTENSIONS—July 21, by Commissioner Education, State Educ. Bldg., Albany, constructing greenhouse extensions, etc. at New York State College of Agriculture, Cornell University here; adv. E.N.-R. June 30. Noted June 23.

N. Y., New York—SCHOOL—July 12, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 152, Nagle and Hillside Aves., Elwood and Sickles Sts., here, for Bd. Educ., 500 Park Ave.

Unit Prices on New Subway Tube

Complete unit prices on Route No. 1, Section 1, of the Rapid Transit R.R. in New York, have been arranged in convenient form and printed on one side of sheet and will be sent without charge to all who ask for them. Seven contractors submitted itemized bids on the more than 200 separate items that make up this big subway contract, awarded to Mason & Hanger for $22,282,309. The subway will be constructed under the East River and will be the fourth subway tube connecting Manhattan and Brooklyn.

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Constr. News page 427

Buildings—Educational, Religious (Cont.)

Pennsylvania—HOME—July 7, by L. B. Rothschild, archt., 215 South Broad St., Phila., 3 story and basement, 36 x 195 ft., and 52 x 91 ft., rein.-con., brick, steel and cast stone, Moreland Rd., Upper Dublin Twp., Montgomery Co., for Jewish Convalescent Home, constituent member of Federation Jewish Charities.

Pa., Cornwall—SCHOOL—July 8, by Bd. Educ., Consolidated School, 2 story and basement, 130 x 219 ft., rein.-con. and brick, plain foundation. $600,000. Ritter & Shay, Packard Bldg., Phila., archts.

Pa., Emlenton—HIGH SCHOOL—July 7, by Bd. Educ., and Crosby & Crosby, archts., Oil City, 2 story and basement, irregular shaped, brick and steel high school. $200,000. Noted May 26.

Pa., Johnstown—SCHOOL—July 11, by Johnstown School Dist., J. D. Rutledge, pres. 3 story and basement, 80 x 100 ft., brick and steel addition, Woodvale St. $175,000. J. E. Adams, Nemo Bldg., archt.

O., Columbus—SCHOOL—July 18, by W. V. Drake, clk. Bd. Educ., 270 South State St., 2 story, 115 x 190 ft., brick and concrete addition to John Burroughs School, Sullivant Ave. $150,000. H. D. Smith, 207 East State St., archt.

Mo., Kansas City—MONASTERY—See "Contracts Awarded."

Contracts Awarded

N. H., Hanover—FRATERNITY—Chi Phi Fraternity, 2 story and basement, rein.-con. and brick, plain foundation, to W. H. Trumbull, Hanover. Archts. est. $150,000. Noted Mar. 17.

N. H., Tilton—HALL and DORMITORY—Tilton School, G. A. Fairbanks in charge, 2 and 3 story and basement, 75 x 135 ft., brick and stone, plain foundation, School St., to J. M. Swan & Son, Inc., St. Johnsbury, Vt. Archts. est. $150,000. Noted June 9.

Mass., Brookline (br. Boston)—SCHOOL—Town, Bd. Educ., altering and constructing 2 story and basement, brick and stone addition to R. C. Winthrop School, plain foundation, to P. J. Cantwell, 6 Dakota St., Boston. Archts. est. $150,000. Noted June 9.

Mass., Mittineague — CHURCH — St. Francis Church, F. Potvin, pastor, 1 story and basement, 45 x 115 ft., brick and stone, plain foundation, to M. J. Walsh & Son, 1412 Dwight St., Holyoke. Archts. est. $150,000. Noted May 28.

Conn., New Haven—COLONNADE—Yale University, Walter Camp Memorial colonnade, 50 ft. high, 70 ft. wide, brick and steel, Derby Ave., to Sperry & Treat, 39 Church St. Archts. est. $350,000.

Conn., New Haven—MEDICAL—Yale College, Bd. Trustees, in association with New Haven Hospital, 3 and 4 story, 178 x 242 ft., rein.-con., brick and steel, hospital and class room building, pathology, bacteriology and surgery, Cedar, Congress and Howard Sts., to Hegeman Harris Co., 360 Madison Ave., New York City. Archts. est. $1,250,000. Noted Mar. 24.

N. Y., New York—NURSES SCHOOL—Lincoln Hospital and Home, Convent Ave. and 141st St., 10 story, on 186 x 194 ft. site, Convent Ave. and 141st St., to Cauldwell-Wingate Co., 381 4th Ave. Archts. est. $750,000. Noted Mar. 17.

N. J., Egg Harbor City—SCHOOL—V. J. Eck, archt., 12 Broad St., Red Bank, general contract 2 story and basement, 60 x 115 ft., brick and steel, plain foundation, here, to E. Weller, Hamilton Bldg., for St. Nicholas Roman Catholic Church. Archts. est. $150,000. Noted June 9.

N. J., New Brunswick—MUSIC—New Jersey College for Women, 109 George St., general contract 2 story, 50 x 160 ft., brick and steel, plain foundation, Clifton Ave., to Highland Park Building Co., 238 Cleveland Ave. Archts. est. $150,000.

Pa., Pittsburgh — SCHOOL—Bd. Educ., Fulton Bldg., general contract Regent Square School, 2 story and basement, irregular shaped, brick and steel, Regent Sq., to Gilpatrick Dawson Co., Empire Bldg. Archts. est. $250,000.

Md., Baltimore — NURSES HOME and HOSPITAL—H. G. Jory, archt., Munsey Bldg., and C. N. and N. Friz, consult. archts., Lexington Bldg., 4 story, irregular shaped, brick nurses home, and alterations to hospital, plain foundation, 1215 Light St., to Cogswell-Koether Co., 406 Park Ave., for South Baltimore Genl. Hospital, 1215 Light St. $200,000. Noted June 9.

Fla., Miami—HIGH SCHOOL—School Bd., Dade Co., 4 story and basement, agricultural high school, rein.-con., brick and steel, plain foundation, to W. P. Thurston Co., 2408 Rosewood Ave., Richmond, Va., $388,600.

O., Cincinnati — MUSIC HALL — Music Hall, Elm St., remodeling and constructing

Constr. News page 428

1 story, brick and rein.-con. addition, plain foundation, to Hodges Constr. Co., 241 Walnut St., $700,000. Noted Dec. 30.

O., Garfield Heights (br. Cleveland) — HIGH SCHOOL—Bd. Educ., H. L. Mock, clk., 3 story and basement, brick, steel and concrete, Turney Rd., to F. H. Vogel, Ridge Rd., Cleveland, $321,986.

O., Lorain — CHURCH — St. Anthonys Roman Catholic Church, A. Rafferty, pastor, substructure, 1 story and basement, 85 x 120 ft., brick, steel and concrete, to T. J. Hume, 435 Hamilton Ave. Archts. total est. $300,000.

Ind., Ft. Wayne — SCHOOL — School Trustees, general contract 3 story and basement, 91 x 160 ft., rein.-con., brick and steel, Anthony Blvd., to H. Wehrenberg, 252 Farmers Trust Bldg., $98,497. Noted Feb. 10.

Ind., Laporte — CHURCH — Methodist Episcopal Church, A. Beck, pastor, general contract 4 story, 115 x 150 ft., rein.-con., brick and steel, Alexander and Michigan Sts., to Larson & Danielson, Laporte. Archts. est. $200,000. Noted Mar. 3.

Ind., Vincennes—HIGH SCHOOL—School Comrs., Lincoln High School rein.-con., brick and steel, to Keller & Sons, Vincennes, $164,829. Noted Mar. 4.

Wis., Green Bay—SCHOOL and AUDITORIUM—Bd. Educ., 3 story, 75 x 123 ft., rein.-con., brick and steel school addition and auditorium, plain foundation, to E. H. Regal Co., 134 South Adams St. Archts. est. $150,000. Noted Mar. 10.

Minn., Minneapolis—LAW SCHOOL—Com. Administration & Finance, State Capitol, St. Paul, general contract 3 story and basement, rein.-con. and brick law school for State University, here, to Ring Constr. Co., 99 South 11th St., $158,743. Noted May 26.

Kan., Hutchinson — HIGH SCHOOL — Bd. Educ., J. E. Geyer, clk., general contract 3 story, rein.-con., brick and stone, incl. auditorium, 1,500 seating capacity, gymnasium, etc., to Stamey Const. Co., Hutchinson, $145,830. Noted May 19.

Mo., Kansas City — MONASTERY — Catholic Sisters of Notre Dame De Sion, 24 East Armour Blvd., will build rein.-con. and stone monastery (school), by day labor. $300,000. Wilkerson & Crans, Interstate Bldg., archts. Noted Apr. 7.

Mo., Fayette — DORMITORY — Central Howard Payne College, 3 story and basement, 33 x 247 ft., rein.-con., brick and stone dormitory, to John Epple Constr. Co., Ferguson. Archts. est. $150,000. Noted Mar. 10.

Tex., Amarillo—SCHOOL—Amarillo Pub. School Dist., 2 story and part basement, 100 x 240 ft., brick, plain foundation, North Buchanan St., to W. G. Windsor Constr. Co., Oliver-Eakle Bldg., $129,800.

Calif., Berkeley — CHURCH — G. Rushforth, archt., 254 Pine St., San Francisco, (1st unit) steel and concrete church, Dana St., to K. E. Parker, 135 South Park, San Francisco, for Trinity Methodist Episcopal Church. $145,900. Noted May 19.

Ont., Belleville—COLLEGIATE INSTITUTE, etc.—Bd. Educ., general contract 3 story and basement, concrete, brick, steel and stone collegiate institute and technical school, to A. R. Holmes, 6 Hayden St., Toronto, approximately $300,000; heating, plumbing and ventilation, to Howe & Hagerman, 191 Front St., Belleville, approximately $100,000. Noted Feb. 24.

Ont., Ottawa—SCHOOL—Bd. Educ., 4 story and basement, 55 x 150 ft., rein.-con., and stone addition, plain foundation, Bessla St., to H. Dagenais, 15 East St. Patrick St. Archts. est. $160,000.

Federal Government Work

Proposed Work

Calif., Los Angeles—Dredging—U. S. Engineer Office, Central Bldg., rejected bids May 27, dredging East Basin, Los Angeles Harbor. Noted May 12.

Bids Desired

New York—Dredging—July 28, by U. S. Engineer Office, 1st Dist., Army Bldg., 39 Whitehall St., New York City, dredging in Tarrytown and Peekskill Harbors, Hudson River; adv. E. N.-R. June 30.

Miss., Vicksburg—Levee Work—July 8, at office 3rd Mississippi River Dist., P. O. Box 404, constructing 6,905,000 cu.yd. levee work, here; adv. E. N.-R. June 30.

O., Dayton—Distribution System—July 20, at office Constructing Quartermaster, Wright Field, installing underground electric distribution system, Wright Field, here; adv. E. N.-R. June 30.

Wyoming — Road — July 12, by J. W. Jo'nson, dist. engr. Bureau Pub. Rds., Custom House, Denver, grading, etc. 6.55 mi. Cub Creek Sect. East Entrance Natl. Park Rd. Project, in Yellowstone Natl. Park, here.

Tex., Houston—Remodeling—July 19, by Treas. Dept., at office Supervision Archt., Wash., D. C., remodeling 2nd story and part first story, United States Post Office (Old), here.

Ariz., Tucson — Hospital — Aug. 11, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., constructing buildings and utilities incl. roads and drainage at U. S. Veteran's Hospital, here.

California — Road — July 12, by C. H. Sweetser, dist. engr. Bureau Pub. Roads, Sheldon Bldg., San Francisco, grading, etc. 11.85 mi. San Marcos extension, Santa Barbara Co.

Contracts Awarded

Me., Portland — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Marine Hospital, here, to S. Pasquale, 294 Washington St., Boston, Mass., $18,300. Noted May 12.

Mass., Boston—Pile Driving—Spec. 5403—Bureau Yards & Docks, Navy Dept., Wash., D. C., pile driving, here, to Rendle Corp., 271 Marginal St., Chelsea, $1,500. Noted June 9.

Delaware — Dredging — U. S. Engineer Office, Wilmington, dredging 150,000 cu.yd. new entrance in Chesapeake and Delaware Canal, in New Castle Co., here, to W. H. French Dredging & Wrecking Co., Citizens Bank Bldg., Norfolk, Va., at $0.253 per cu.yd. Noted May 26.

N. C., Oteen—Refrigerating, etc.—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., mortuary refrigerator and refrigerating equipment, at U. S. Veteran's Hospital, here, to Frick Co., Inc., Waynesboro, Pa., $2,695. Noted May 19.

Mich., Muskegon—Breakwater—U. S. Engineer Office, Milwaukee, constructing South Breakwater, in Muskegon Harbor, here, to Love Constr. & Eng. Co., Union Bank Bldg., $267,147. Noted May 5.

Ill., Maywood—Water Softening System—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., water softening system, at Edward Hines, Jr. Hospital, here, to Permutit Co., 440 4th Ave., New York City, $24,500. Noted May 5.

S. D., Aberdeen — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to T. W. Cissel, Bethlehem, Pa., $4,810.

Mo., Machens—Revetment—U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, 7,000 lin.ft. standard revetment in Missouri River, at Pelican Bend, about 2 mi. south of here, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, $156,800. Noted June 2.

Calif., Livermore—Buildings, etc.—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., general contract, incl. plumbing, heating, electrical work, etc. at U. S. Veteran's Hospital, here, to J. A. Bryant, 185 Stevenson St., San Francisco, $58,575. Noted May 12.

Unclassified

Proposed Work

Grade Crossing Elimination — Albany, N. Y. — Delaware & Hudson R.R. Co., 32 Nassau St., New York City, J. MacMartin, ch. engr., plans eliminating grade crossing by constructing 3 span through plate girder bridge, at Elsmere Ave., here. $158,000.

Grade Crossing Elimination—Rensselaer, N. Y.—New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr. made plans eliminating grade crossing over New York Central and Boston & Maine R.R. tracks, at 2nd and Aiken Aves., here. Noted May 5.

Dock, etc.— New Brunswick, N. J.—City Commissioners, City Hall, making preliminary plans steel dock and warehouse along Delaware and Raritan Canal, Burnett and Lock Aves. $1,000,000. A. Atkinson, City Hall, engr. Noted Nov. 4.

Ice Skating Rink—New Brunswick, N. J.—New Brunswick Natatorium Co., 270 Handy Ave., making plans 1 story, brick and steel, plain foundation, Lexington Ave. $40,000. Private plans.

Athletic Field — Red Bank, N. J. — Bd. Educ., Town Hall, plans grading, etc. athletic field, stadium, etc. $40,000. Engineer not selected.

Dock—Cedar Point (Sandusky P. O.), **O.**—Cleveland & Buffalo Transit Co., G. A. Bomm, genl. mgr., foot of East 9th St., Cleveland, plans rein.-con. shipping dock,

Unclassified (Continued)

here. G. Cook, Penobscot Bldg., Detroit, Mich., engr.

Poles—Indianapolis, Ind.—Indiana Bell Telephone Co., 256 North Meridian St., plans 12,000 poles (various heights), 265,000,000 ft. conductor wire in cable, 6,000 mi. iron and copper wire, 5,500 cable terminals, also 3 new exchanges, one at South Bend, one Bloomington and other Mt. Vernon. $3,700,000. P. M. Watson, 256 North Meridian St., engr.

Power Line—Indianapolis, Ind.—Indianapolis Power & Light Co., N. A. Perry, pres., plans repairing lines and constructing new building. $2,500,000.

Aquarium—Chicago, Ill.—See "Building-Commercial."

Ornamental Lighting System—St. Paul, Minn.—Making preliminary plans ornamental lighting system on West 9th and Franklin Sts., $15,000; sections Pinehurst, Hillcrest and Underwood Aves., $7,500; and Cherokee Ave., Baker St., Cherokee Blvd., etc. $7,500. G. M. Shepard, city engr.

Ship Yard—Kansas City, Mo.—Wood Bros. Corp., Security Bldg., plans ship yard along Missouri River.

Gas Pipe Line—Texas—A. D. Morton, Dalhart, making plans 40 mi. natural gas distributing line from point in western Moore Co. to Dalhart. $300,000. Private plans.

Lighting System—Ft. Worth, Tex.—City, O. E. Carr, mgr., soon takes bids 192 standards of 1,000 candle power on Houston and Main Sts., from Weatherford to Front Sts. D. L. Lewis, city engr.

Amusement Park—Galveston, Tex.—R. I. Cohen and associates, 1718 31st St., having plans prepared amusement park, incl. filling, grading, athletic field, grandstand seats, etc. facing 1,000 ft. on Bayou. $175,000. Private plans.

Gas System—Galveston, Tex.—Galveston Gas Co., c/o E. G. Lege, asst. mgr. 2422 D St., plans extending gas mains and distributing system. $75,000.

Swimming Pool — Houston, Tex.—See "Buildings—Commercial."

Land Development—San Antonio, Tex.—Northside Development Co., c/o H. C. Thorman, 125 East Travis St., making plans developing 147 acres land north of city limits, paving $100,000, sewers $50,000, sidewalks, etc. $25,000, gas system $25,000. Private plans.

Land Development—San Antonio, Tex.—Carruth-Parks, Inc., c/o Travis Bldg., purchased 110 acre plot old Breckenridge Homestead on north side of here, and making plans sub-dividing same into small tracks for restricted subdivision. $60,000. Private plans.

Electric Distribution System—Lawton, Okla.—Southwest Light & Power Co., Braniff Bldg., Oklahoma City, made plans new electric distribution system, here. $30,000. E. R. Ernsberger, Braniff Bldg., Oklahoma City, engr.

Lighting System — Compton, Calif. — Plans approximately 2.1 mi. ornamental lighting system (marbelite standards) on Long Beach Blvd. To exceed $25,000.

Stadium — Sacramento, Calif. — Dean & Dean, archts., California State Life Bldg., preparing revised plans stadium at Junior College, for Sacramento Junior College Dist. $150,000. Former bids rejected. Noted June 2.

Tunnel—Sacramento, Calif.—Made plans tunnel to carry steam, telephone lines, etc., to connect up State Capitol Buildings. State Dept. Pub. Wks., Forum Bldg., engr. $28,000.

Stadium—Saugus, Calif.—C. H. Baker, c/o E. Van Den Hoven, archt., I. W. Hellman Bldg., Los Angeles, having plans prepared steel stadium 50,000 seating capacity, on Baker Ranch near here. $175,000.

Generating Station—Papineauville, Que.—See "Dams."

Ice Arena etc.—Oshawa, Ont.—Hambly Bros, King St. W., had plans prepared by R. H. Bishop, Bradley Blk., ice arena, ice surface being 80 x 190 ft., and 1 and 2 story, 150 x 269 ft. brick and steel building.

Elevator—Burrards Inlet, B. C.—Alberta Wheat Pool, Calgary, having plans prepared 2,400,000 bu. concrete elevator, south shore of here from Kooteneay to Rupert St., 1,350 ft. water front, $2,000,000. C. D. Howe & Co., Port Arthur, engrs. Noted June 16.

Bids Desired

Comfort Station—Lynn, Mass.—City, Bd. Park Comrs., A. T. Comstock, chn., taking bids concrete, Strawberry Ave. $25,000. Sanborn & Weed, 38 Exchange St., engrs.

Tunnel—Howard, R. I.—July 7, by State, Pub. Welfare Com., State House, Providence, concrete ward tunnel, etc. at State Infirmary. $25,000. W. F. Fontaine, 285 Main St., Woonsocket, archt.

Mechanical Equipment—New York, N. Y.—July 12, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment, incl. plumbing, heating, etc., for P. S. 152, Nagle and Hillside Aves., Elwood and Sickles Sts., for Bd. Educ., 500 Park Ave.

Subway—Phila., Pa.—July 7, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., approximately 16 mi. (single track) subway and 6 mi. single track in Fern Rock Terminal Yard; for Broad Street Subway, Contr. 154.

Fish Hatchery—Bucyrus, O.—July 15, by Dept. Agriculture, Columbus, C. Truax, dir., fish hatchery, here. $30,000. H. B. Briggs, Ohio-Hartman Bldg., Columbus, engr.

Lighting System—Galesburg, Ill.—July 5, by Bd. Local Impvts., 2,400 lin.ft. double and 510 lin.ft. single conductor No. 8-B and S gauge 2,500 volt steel armored lead covered cable. 16 foundations and 16 c.i. poles, 16 rippled glass boulevard globes, 16 C.P Type C Mazda lamps 6.6 amp., and 192 lin.ft. duplex 10 rubber covered 600 volt wire for wiring each pole in various streets. A. L. Richey, city engr.

Telephone System—St. Louis, Mo.—See "Contracts Awarded."

Transmission Line—Texas — See "Contracts Awarded."

Wharf—Galveston, Tex.—See "Contracts Awarded."

Wharf—St. Anne de Beaupre, Que.—July 6, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing wharf, here, $25,000.

Harbour Wall—Owen Sound, Ont.—July 8, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, extending harbour wall, here. $70,000.

Bids Received

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., June 24, constructing Sect. 1, Route 45, Bway. 4th Ave. Rapid Transit R.R., under Nassau St. and Park Row, from Marcus Contg. Co., 305 Bway., $4,500,000; Sect. 2, from Moranti & Raymond, Inc., 42 Bway., $5,862,000; and Sects. 1 and 2 (combined) from Corson Constr. Co., 1440 Bway., $10,300,000. Noted June 9.

Contracts Awarded

Swimming Pool and Auditorium—Pittsfield, Mass. — Pittsfield Boys Club, c/o Harding & Seaver, archts., 7 North St., 1 story and basement, 100 x 100 ft., brick and concrete swimming pool and auditorium addition, to D. H. Pike, 30 Eagle St. Engrs. est. $50,000. Noted June 2.

Golf Course, etc. — Cromwell, Conn. — Syndicate, c/o A. N. Shepard, Main St., Portland, golf course, to O. E. Smith, 123 Jerome St., New Britain. Engrs. est. to exceed $25,000.

Comfort Stations—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg. general contract comfort station at Bway. and 96th St., to H. B. Greene Contg. Co., 245 5th Ave., $23,300; on Lincoln Sq., to W. D. Moore's Sons, Inc., 560 67th St., Brooklyn, $20,237; and on Riverside Dr., to Carbone Constr. Co., 489 5th Ave., $24,280. Grand total $67,817. Noted June 16.

Sanitary Work — Utica, N. Y. — Comr. Mental Hygiene, Dept. Mental Hygiene, Albany, sanitary work renewing plumbing in North Wing (Wards 2, 3, 7, 8, 11 and 12) at Utica State Hospital, here, to H. J. Brandeles Corp., 435 Lafayette St., $16,239. Noted May 19.

Race Track — Bowie, Md. — Southern Maryland Agricultural Assn., J. Farrell, secy., Lexington Bldg., Baltimore, race track, incl. grand stand, club house, paddocks and judges stand, rein.-con. and steel, plain foundation, here, to F. Wright, 205 Davis St., Baltimore, $350,000.

Caissons and Foundation—Detroit, Mich.—Union Trust Co., Griswold St., 800 Marquette Bldg., sinking caissons 100 ft. deep and concrete foundation for 40 story office building, to Foundation Co., 120 Liberty St., New York City. Noted Apr. 28 under "Buildings—Commercial."

Lighting System—Niles Center, Ill.—Electric lighting system on Monticello Ave., to R. I. Purcell, 38 South Dearborn St., Chicago, $31,825.

Culverts—Allison, Ia.—See "Bridges."

Culverts — Council Bluffs, Ia. — See "Bridges."

Culverts, etc.—Decorah, Ia.—Winneshiek Co., 35 culverts and extensions, to F. Carlson Paving Co., Decorah, $13,349; also 9 culverts and 2 sets abutments and piers, to A. Olson Constr. Co., Waterloo, $19,000.

Foundation, etc. — Valley City, N. D.—See "Buildings—Commercial under Proposed Work."

Subway—St. Joseph, Mo.—See "Bridges."

Telephone System—St. Louis, Mo.—Southwestern Bell Telephone Co., 11th and Pine Sts., will improve and extend telephone system in district between Goodfellow Rd., Wabash R.R. tracks, Eastern Ave. and Delmar Blvd., incl. placing 427 poles, 8 mi. aerial and 4,000 ft. underground cable, also removing 276 poles, 48 mi. aerial wire and 1.5 mi. aerial cable, by day labor. To exceed $55,000. Private plans.

Transmission Line—Texas—Comal Power Co., New Braunfels will build 22 mi. line from Elmendorf to Floresville, by own forces. $60,000 incl. equipment. Private plans.

Wharf — Galveston, Tex. — Galveston Wharf Co., c/o E. E. Gossrau, mgr., will build slips at Piers 19 and 20, by day labor. $150,000. Private plans.

Block Signal System—Arkansas and Tennessee—Missouri-Pacific R.R. Co., Railway Exch. Bldg., St. Louis, Mo., E. A. Hadley, ch. engr., 178 mi. automatic block signal system between Bald Knob, Ark., and Memphis, Tenn., between Bald Knob, Ark., and North Little Rock, Ark., and between Little Rock, Ark. and Benton, Ark., to General Railway Signal Co., Railway Exch. Bldg., St. Louis, Mo., approximately $875,000. Noted May 12.

Lighting System—Long Beach, Calif.—Ornamental lighting system on portion Pacific Ave., to Baty Electric Co., 128 West 4th St., $41,680.

Lighting System—Los Angeles, Calif.—Bd. Pub. Wks., ornamental lighting system on Fox Hills Dr., to Reid Co., 444 West 61st St., $53,350, and Hill St. between Pico and 5th Sts., to H. H. Walker, 1323 Venice Blvd., $50,832.

Lighting System—Pomona, Calif.—Ornamental lighting system on Holt Ave. between Huntington Blvd. and Reservoir St., to Newbery Electric Co., 726 South Olive St., Los Angeles, $25,865.

Lighting System—Ontario, Calif.—Ornamental lighting system on Euclid Ave. between C and 6th Sts., to Street Lighting Eng. Co., San Bernardino, $32,335.

Pier and Sheet Piling—Port Maitland, Ont.—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, repairing timber and concrete pier and sheet piling, here, to V. T. Bartram, Bank of Toronto Bldg., Toronto, $26,485. Noted May 26.

Materials

Bids Desired

Castings, etc.—New York, N. Y.—July 6, by J. Miller, pres. Manhattan Boro, Municipal Bldg., steel and iron castings to corporation yards; 700,000 gal. asphaltic cement; 3,000 tons inorganic dust; 20,000 cu.yd. asphalt sand; and 8,000 cu.yd. ¾ in. binder stone.

Fabricated Structural Steel—Phila., Pa.—July 8, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., fabricated structural steel for sub-stations, Contr. 84-1927.

Rail, Bonds, etc.—Phila., Pa.—July 5, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., rail, bonds, terminals, drift pins and copper cables for bonding, Contr. 81-1927; bridge superstructure, Contr. 82-1927; and frogs crossings, compromise joints, etc. Contr. 83-1927.

Stone, Slag or Gravel—West Virginia—See "Streets and Roads."

Bids Received

Cement—Baltimore, Md.—J. H. Kraft, city purch. agt., City Hall, June 22, 10,000 bbl. cement, from Maryland Lime & Cement Co., Eastern and Central Aves., $26,500. Noted June 16.

Contracts Awarded

Filler—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 600 tons asphaltic joint filler, to Standard Oil Co. of New York, 26 Bway., $13,620. Noted June 23.

Riprap St.-ne—Detroit, Mich.—Dept. Purchases & Supplies 710 Marquette Bldg., 8,000 tons man size riprap stone, to M. Sullivan Dredging Co., 2254 Buhl Bldg., at $2.15 per ton, total $17,200. Noted June 9.

See proposal advertising on page 117

Constr. News page 429

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Akron, Ohio

Bids were opened by Commissioners of Summit Co., May 16, (lowest four and highest) for constructing Bridge No. 1, from (A) Purdy Construction Co., (awarded contract); (B) A. F. Wible; (C) W. J. Hinds Construction Co.; (D) Roberts Supply Co.; (E) E. F. Scanlon. The unit bids are as follows:

	A	B	C	D	E
Removing old bridge and abutments (lump sum)	$250.00	$150.00	$250.00	$199.00	$800.00
1,000 cu.yd. excav. including backfill	2.50	2.75	2.25	3.00	2.00
7,000 lin.ft. piling furnished	0.40	0.20	0.30	0.50	0.40
7,000 lin.ft. piling driven	0.40	0.60	0.60	0.25	0.50
620 cu.yd. 1-2½-4 concrete	14.50	16.00	14.75	17.00	19.00
200 cu.yd. 1-2-3 concrete	22.00	25.00	25.00	24.00	28.00
1,120 sq.ft. sidewalk finish	0.30	0.04	0.04	0.05	0.25
188 lin.ft. concrete bridge railing	3.00	4.00	4.00	4.00	5.00
47,000 lb. reinforcing steel	0.045	0.035	0.0475	0.05	0.05
200 lb. phosphor bronze bearing plates	0.01	0.15	0.27	0.30	0.10
Totals	$24,455	$25,892	$26,028	$27,007	$30,070

Engineering News-Record, June 30 issue.

$22,282,309 Worth of Subway Prices Now Available

Complete unit prices on Route No. 1, Section 1, of the Rapid Transit R.R. in New York, have been arranged in convenient form and printed on one side of sheet and will be sent without charge to all who ask for them. Seven contractors submitted itemized bids on the more than 200 separate items that make up this big subway contract, awarded to Mason & Hanger for $22,282,309. The subway will be constructed under the East River and will be the fourth subway tube connecting Manhattan and Brooklyn.

If you want a copy of these itemized prices, write to

The Editor,
Engineering News-Record,
Tenth Avenue at 36th St.,
New York, N. Y.

Signal Towers—Brooklyn, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., New York, June 3, (lowest four and highest) for constructing signal towers adjacent to elevated structures, Bay 50th St. and Avenue X stations, Agreement "FV," from (A) Ascher Engineering & Contracting Co., Inc., 1457 Bway. (awarded contract); (B) John B. Roberts & Co., 949 Bway.; (C) W. Pearce, 421 7th Ave.; (D) Atlantic Construction Co., 15 East 40th St.; (E) Eastern Construction Co.; 110 West 40th St.; contractors all of New York City. The unit bids are as follows:

	A	B	C	D	E
800 lin.ft. timber piles	$1.60	$2.20	$2.30	$1.85	$4.50
70 lin.ft. stairways (j) with steel treads	2.50	4.80	2.60	3.70	10.00
90 sq.ft. stairway landings (j) with steel plates	2.00	4.00	1.40	3.70	2.00
16 cu.yd. conc. foundations (b) for columns	30.00	70.00	30.00	156.00	90.00
100 lin.ft. railings (j) pipe railings	5.00	3.25	1.70	3.40	5.00
65 lin.ft. metal leaders (d) 3½ in. wrought iron	3.00	3.10	1.40	3.70	5.00
50 lin.ft. (e) 3 in. copper	1.00	1.10	1.50	.74	1.50
13.5 ton steel for enclosures bet. stations (a) for signal towers	200.00	150.00	170.00	154.00	170.00
20 ton (b) riveted steel for pass and signal towers	125.00	150.00	155.00	154.00	170.00
150 sq.ft. metal lath (a) without steel furring	.60	.15	.70	.13	.70
2 pair doors (b) oak for toilet stalls	40.00	75.00	75.00	49.20	75.00
70 sq.ft. structural slate (m) wainscoting	1.75	2.00	1.50	1.73	2.50
60 sq.ft. (p) stall partitions	1.75	2.30	2.00	1.97	3.20
60 lin.ft. (r) curved corners and angles	2.50	2.70	2.00	2.46	4.00
20 sq.ft. (t) stiles and caps	1.75	2.50	2.50	2.15	4.50
3,200 sq.ft. walls floors signal tower (a) copper covered walls	2.00	1.85	2.10	2.12	5.00
2,400 sq.ft. (b) crimped galvanized iron	.25	.25	.70	.53	1.25
1,300 sq.ft. (e) concrete floor	1.25	1.55	1.30	1.54	1.10
4 (f) ventilators	15.00	37.00	50.00	43.00	125.00
1,450 sq. ft. (g) roof	1.50	1.30	2.00	2.24	5.00
260 sq.ft. (i) partition walls	.50	.90	1.80	1.16	3.50
150 sq.ft. (l) cement wainscot or base	.50	.60	2.00	1.48	1.00
4 (m) cast iron saddles	10.00	23.00	12.00	18.45	15.00
175 sq.ft. wood flooring (a) passageways	.50	.48	.60	.53	.75
2 plumbing fixtures (b) water closet bowls	100.00	75.00	45.00	92.00	70.00
2 (c) lavatories	80.00	75.00	40.00	86.00	70.00
2 seats water closet bowls (b) seats	5.00	20.00	20.00	10.00	10.00
Rough plumbing work, signal tower (lump sum)	1,500.00	3,025.00	1,300.00	3,780.00	4,000.00
2 cast iron registers	10.00	23.00	11.00	18.45	50.00
700 sq.ft. painting plaster concrete and cement	.10	.10	.12	.08	20.00
Remove part enst. screen and install new sect. Bay 50th St. Sta. sub. (g) (lump sum)	100.00	90.00	300.00	184.50	250.00
Totals	$21,895	$24,484	$25,036	$29,494	$47,688

Engineering News-Record, June 30 issue

Street Improvements—Knoxville, Tenn.

Bids were opened by City, April 14, for paving, curbing, guttering and constructing sidewalks on various streets, from (A) Independent Paving Co., Birmingham, Ala.; (B) Flenniken Construction Co., Knoxville; (C) Murray Construction Co., Holston Bank Bldg., (awarded contract); (D) R. G. Lassiter & Co., Raleigh, N. C.; (E) Southern Roads Co., Birmingham, Ala. The unit bids are as follows:

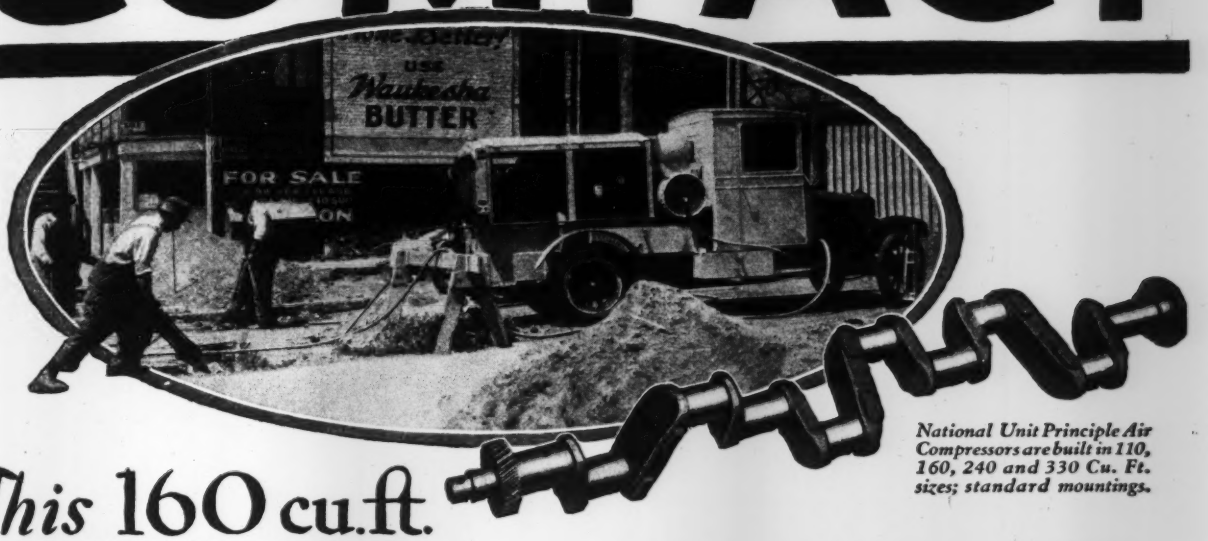
	A	B	C	D	E
41,000 sq.yd. sheet asphalt paint coat 2 in. T	$1.18	$1.03	$0.92	$1.19	$1.14
38,000 sq.yd. asphaltic concrete surface 2 in. T	1.04	.96	.86	1.06	1.05
17,000 sq.yd. concrete paving 1-2-4 mix 6 in. T	1.99	1.83	3.08	1.89	1.81
2,500 sq.yd. concrete base 1-2-4 mix. 6 in. T	1.49	1.65	1.19	1.75	1.49
76,500 sq.yd. concrete base 1-2½-5 mix 6 in. T	1.37	1.56	1.10	1.62	1.27
4,000 lin.ft. expansion joints	.10	.12	.10	.08	.10

Concluded on page 430a

Constr. News page 430

UNIT PRICES *continued on page 430a*

COMPACT



National Unit Principle Air Compressors are built in 110, 160, 240 and 330 Cu. Ft. sizes; standard mountings.

This 160 cu.ft. NATIONAL-*mounted on a* Ford 1 *Ton* Truck!

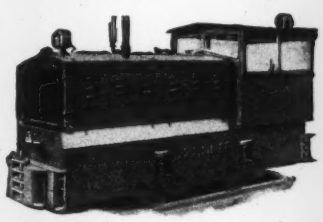
EXTREME compactness, complete portability, and ample capacity are three of the cardinal virtues of the Westinghouse-National Unit Principle Air Compressor.

The two-cylinder compressor and four-cylinder engine are an integral unit—there are no clutches, gears, chains, belts, or couplings. A single crankshaft drives both the compressor and engine. Less "machinery" to look after, fewer wearing parts, less frequent replacements, plus compactness, are some of the advantages.

NATIONAL BRAKE & ELECTRIC COMPANY
Division of Westinghouse Air Brake Co.
MILWAUKEE, WIS.

[*Exclusive territorial sales franchises available*]

National AIR COMPRESSORS
A WESTINGHOUSE PRODUCT



Milwaukee Gasoline Locomotives **will solve your haulage problem. All sizes, all gauges. Pioneer builders of gasoline locomotives since 1907. Get acquainted with our Type "H" Models.**

MILWAUKEE LOCOMOTIVE MFG. CO.
Subsidiary of National Brake & Electric Co.
MILWAUKEE WISCONSIN

MILWAUKEE *Gasoline* **Locomotives**
Another Westinghouse Product

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Street Improvements—Knoxville, Tenn. (Continued)

	A	B	C	D	E
50 tons binder	8.50	8.50	9.00	7.50	12.00
55,000 cu.yd. excavation	.65	.65	.50	.60	.60
10,000 cu.yd. embankment	.10	.10	.10	.15	.10
550 cu.yds solid rock in sub-grade	3.00	2.40	3.00	3.00	2.50
600 cu.yd. solid rock in trench	6.00	7.00	7.50	10.00	7.00
600 cu.yd. shale in sub-grade	2.00	2.15	2.00	2.00	2.50
300 cu.yd. shale in trench	3.00	6.00	2.00	5.00	5.00
2,000 lin.ft. headers and curb removed	.06	.08	.10	.12	.04
1,000 lin.ft. overhaul, 4,000 ft. on headers and curb	.03	.02	.01	.04	.01
3,000 lin.ft. gutters removed	.06	.08	.10	.12	.04
75 lin.ft. culverts removed	.50	2.00	5.00	1.75	.50
10 removing trees more than 6 in. in diam	10.00	15.00	17.50	15.00	7.00
30,000 lin.ft. concrete curb 6 x 18 in	.55	.62	.55	.68	.56
35,000 lin.ft. concrete curb 6 x 14 in	.45	.52	.21	.58	.45
2,600 lin.ft. concrete radius curb	.70	1.25	1.10	.90	.60
500 lin.ft. concrete curb and 24 in. gutter	.91	1.00	.95	1.00	.90
1,000 sq.ft. concrete gutters	.22	.30	.20	.25	.21
12,000 sq.yd. concrete sidewalks	1.35	1.45	1.35	1.40	1.30
200 sq.yd. concrete driveways	2.00	1.85	2.00	1.75	1.80
120 lin.ft. 4 in. drain cast iron pipe	.75	.40	1.00	1.00	.85
500 lin.ft. stone headers set	.35	.30	.50	.40	.30
900 lin.ft. concrete headers	.80	.40	.20	.40	.50
400 lin.ft. curb reset	.45	.30	.58	.40	.30
190 cu.yd concrete, 1-2-4 mix	16.00	22.00	18.00	22.00	20.00
160 cu.yd. concrete, 1-2½-5 mix	16.00	21.00	16.50	20.00	18.50
50 cu.yd. concrete, 1-3-6 mix	12.00	20.00	12.00	18.00	17.50
50,000 ft. timber, shoring and sheathing	75.00	55.00	50.00	70.00	60.00
6,000 lin.ft. reinforcing bars, ½ in	.08	.035	.06	.14	.04
4,000 lin.ft. reinforcing bars, ¾ in	.12	.08	.10	.15	.08
2,500 lin.ft. reinforcing bars, 1 in	.14	.175	.15	.16	.14
1,500 lin.ft. reinforcing bars, 1¼ in	.30	.215	.20	.17	.27
2,000 sq.yd. removing asphalt, concrete base and sidewalk	.60	1.25	.30	.50	.50
5,000 lin.ft. 6 in. pipe and trench, 0-4 ft. deep	.43	.45	.35	.60	.45
5,100 lin.ft. 6 in., 4-6 ft. deep	.54	.37	.45	.68	.55
400 lin.ft. 6 in., 6-8 ft. deep	.69	.72	.75	.78	.70
5,200 lin.ft. 8 in., 0-4 ft. deep	.49	.51	.45	.70	.65
10,000 lin.ft. 8 in., 4-6 ft. deep	.63	.66	.55	.78	.75
4,050 lin.ft. 8 in., 6-8 ft. deep	.79	.83	.65	.90	.90
1,200 lin.ft. 8 in., 8-10 ft. deep	1.05	1.05	1.00	1.20	1.10
75 lin.ft. 10 in., 4-6 ft. deep	.87	.76	.85	.80	.90
125 lin.ft. 10 in., 6-8 ft. deep	1.10	.91	1.10	.95	1.10
450 lin.ft. 10 in., 8-10 ft. deep	1.75	1.14	1.15	1.10	1.30
500 lin.ft. 12 in., 0-4 ft. deep	.88	.92	.81	1.00	.90
700 lin.ft. 12 in., 4-6 ft. deep	1.06	1.11	.93	1.15	1.05
1,000 lin.ft. 15 in., 0-4 ft. deep	1.10	1.16	1.05	1.30	1.20
1,850 lin.ft. 15 in., 4-6 ft. deep	1.38	1.45	1.15	1.45	1.35
500 lin.ft. 15 in., 6-8 ft. deep	1.51	1.59	1.25	1.75	1.55
950 lin.ft. 18 in., 0-4 ft. deep	1.43	1.50	1.42	1.60	1.55
1,675 lin.ft. 18 in., 4-6 ft. deep	1.61	1.69	1.51	1.80	1.80
750 lin.ft. 18 in., 6-8 ft. deep	1.84	1.93	1.77	2.15	2.20
200 lin.ft. 21 in., 4-6 ft. deep	2.11	2.21	2.35	1.85	2.35
400 lin.ft. 21 in., 6-8 ft. deep	2.44	2.56	2.53	2.05	2.50
1,510 lin.ft. 24 in., 4-6 ft. deep	2.62	2.51	2.24	2.40	2.55
850 lin.ft. 24 in., 6-8 ft. deep	2.95	2.75	2.51	2.70	2.75
350 lin.ft. 24 in., 8-10 in. deep	3.50	3.10	2.94	3.50	3.00
750 lin.ft. 30 in., 4-6 ft. deep	4.49	4.40	4.40	5.30	4.50
1,100 lin.ft. 30 in., 6-8 ft. deep	4.94	4.71	4.62	7.00	5.00
500 lin.ft. 30 in., 8-10 ft. deep	5.60	5.19	5.04	8.00	5.50
150 lin.ft. 36 in., 4-6 ft. deep	6.74	6.69	7.00	8.00	7.00
175 lin.ft. 36 in., 6-8 ft. deep	7.25	7.08	7.25	10.00	7.50
200 lin.ft. 42 in., 6-8 ft. deep	9.95	8.89	9.00	12.00	12.00
300 lin ft. 42 in., 8-10 in. deep	10.10	9.61	9.40	14.00	13.00
200 lin.ft. 48 in., 6-8 ft. deep	11.25	10.27	15.00	14.00	14.50
300 lin.ft. 48 in., 8-10 ft. deep	12.15	11.02	20.00	16.00	15.75
535 bends, 6 in	.40	.42	.56	.75	1.60
535 wyes, 6 x 8 in. in excess of straight pipe	.85	1.11	1.26	1.50	2.60
125 lin.ft. 6 in. C.I. pipe in excess of sewer pipe, class B	1.00	1.05	.85	.75	.65
85 lin.ft. 8 in	1.50	1.58	1.20	.85	1.00
50 lin.ft. 10 in	2.00	2.10	1.60	1.00	1.30
24 lin.ft. 21 in	6.50	6.83	5.00	2.00	3.05
100 lin.ft. 24 in	6.50	6.83	5.80	2.25	4.25
125 lin.ft. 30 in	8.50	8.93	8.35	2.75	5.35
50 lin.ft. 36 in	11.00	11.55	11.35	3.00	6.50
40 manholes, 0-4 ft. deep	35.00	38.50	37.00	48.00	32.00
45 manholes, 4-6 ft. deep	40.00	44.00	46.00	60.00	42.00
15 manholes, 6-8 ft. deep	53.00	58.30	58.00	72.00	52.00
18 manholes, 8-10 ft. deep	64.00	70.40	71.00	84.00	62.00
10 lampholes, 0-4 ft. deep	10.00	11.00	6.00	8.00	11.00
8 lampholes, 4-6 ft. deep	12.00	13.20	7.00	14.00	16.00
5 lampholes, 6-8 ft. deep	15.00	16.50	8.00	20.00	21.00
50 catch basins 18 x 36 in., 0-4 ft. deep	45.00	49.50	49.00	53.00	35.00
75, 18 x 36 in., 4-6 ft. deep	50.00	55.00	62.00	60.00	41.00
35, 18 x 36 in., 6-8 ft. deep	57.00	62.70	80.00	66.00	47.00
15, 18 x 36 in., 8-10 ft. deep	65.00	71.50	87.00	75.00	54.00
6, 24 x 48 in., 0-4 ft. deep	65.00	71.50	70.00	70.00	40.00
5, 24 x 48 in., 4-6 ft. deep	75.00	82.50	78.00	76.00	46.00
4, 24 x 48 in., 6-8 ft. deep	85.00	93.50	90.00	85.00	52.00
Total	$425,561	$438,778	$388,067 Less 21,590* 366,477	$473,050	$414,997
+ 15 per cent	$63,834	$65,816	$54,971	$70,957	$62,219
5 yrs. maintenance on asphalt	6,320	5,530	2,370	3,950	3,950
5 yrs. maintenance on concrete paving	1,360	1,190	510	1,275	850
Curing concrete base	6,320	3,950	3,160	3,950	2,370
Grand total	$503,395	$515,264	$427,488	$553,181	$484,186
Time to complete, days	200	225	125	150	12-1-27

* Correction of error in bid on 1:2:4: concrete paving.

Engineering News-Record, June 30 issue

Constr. News Page 430a